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## ALIGNMENTS

RESULT 1 AAW79676 Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis; AAW79676 standard; protein; 679 AA. Human CS198 protein. 11-JAN-1999 AAW79676; 31-MAR-1997; 30-MAR-1998; 08-OCT-1998 WO9844159-A1. Homo sapiens, pancreatitis. (first entry) 97US-00828855 98WO-US006251.

Billing-Medel PA, Cohen M, Colpitts TL, Granados EN, Hayden M, Hodges SC, Klass Roberts-Rapp L, Russell JC, Stroupe SD; ¥, Friedman PN, Gordon J; MR, Kratochvil JD;

ABBO ) ABBOTT LAB

WPI; 1998-542714/46.

New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.

Claim 26; Page 100-102; 127pp; English.

This sequence represents the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's ossophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, colitis, and

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                                                              CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                        Homo
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                                                                                                                                                                                                                                                                                 standard;
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                                                                                                                                                                                                                                                                                 protein;
                                                                                                                                                                                            entry)
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Pred. No. 9.9e-290;
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MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG

VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE

VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE

120 120 60 6 0

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Best Loc Matches Query Match

Local Similarity

100.0%; Score 3583; 100.0%; Pred. No. 9.1 tive 0; Mismatches

.9e-290; DB 4

Length Indels

679; <u>.</u>

Gaps

679;

Conservative

Sequence

묽 S

2 61

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The invention relates to a method of detecting the presence of a target CC S198 polynucleotide comprising contacting the test sample with at least cone CS 198 specific polynucleotide. The method is useful for detecting CC one CS 198 specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CT The CS 198 polynucleotides, polypeptides and antibodies are useful for CC detecting, diagnosing, staging, monitoring, prognosticating, preventing, CC treating or determining predisposition to diseases and conditions of the CG I tract such as cancer, gastric ulcer, gastritis, Crohn's disease, CC ulcerative colitis, pancreatitis and Barret's oseophagus. The CS 198 CC polypeptides are useful as standards or reagents in diagnostic municoassays, as components or as target sites for various therapies. CC immunoassays, as components or as target sites for various therapies. CC immunoassays, as components or as target sites for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated CC with CS 198, particularly cancer. Monoclonal antibodies may also be used CC polypeptides are useful as generation of chimeric antibodies for therapeutic use. The CS 198 polynucleotide is also useful in gene therapy and drug screening. The CC method of the invention provides an alternative, non-surgical diagnostic CC method capable of detecting early stage GI tract disease such as cancer. CC The present sequence is human CS 198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, contacting test sample with at least one CS 198-specific polynucle
                                                                                                                                                                                                                                                                                                                                                                                                    Claim 17; Page 49-51;
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Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(FRIE/)
(GORD/)
(GORD/)
(GRAN/)
(HAYD/)
(KLAS/)
(KRAT/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ROBE/)
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DB; AAD13637.
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FRIEDMAN P N.
GRADON J.
GRANADOS E N.
HAYDEN M.
HODGES S C.
KLASS M R.
KRATOCHVIL J.
KRATOCHVIL J.
KRATOCHVIL J.
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RUSSELL J C.
STROUPE S D.
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679
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Hayden M,
L, Russell
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                                                                                                                                                                                                                                                                                                                                                                                                 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Colpitts TL, Frie Hodges SC, Klass JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Friedman PN, Gordon
Lass MR, Kratochvil
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RESULT 3
ADA263
ID ADA2
XX ADA22
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                                                                                                                                                                                                                                                                                                                                                                     CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
                                                                                                                                              31-MAR-1997,
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                  Synthetic;
                                                                                                                                                                                                        23-OCT-2002; 2002US-00278547
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(COHE/)
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(FRIE/)
(GORD/)
    (GRAN/)
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  BILLINGEL P A.
COHEN M.
COLPITTS T L.
FRIEDMAN P N.
GORDON J.
GRANADOS E N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino
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98US-00050516.
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Query Match
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Matches 679;
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detecting
                                                                                     The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the predicted amino acid sequence of the human CS198 protein derived from the CS198 consensus sequence shown in seq id 27.
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Granados EN,
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(HODG/)
(KLAS/)
(KRAT/)
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STROUPE S D.
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HODGES S C.
KLASS M R.
KRATOCHVIL J
                  Similarity
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ilarity 100.0%;
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L, Russell
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Hodges SC,
JC, Stroupe
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Pred. No. 9.9e-290;
Mismatches 0;
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PPDAYQPYLSPGTPQLEPSAPGAPGKPSSLSTABAKAATSPKATMSPRHLSBSSGKPL
                     PDDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
                                                            REEDHRREGLHVGRASTPDWVSBGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRI
                                                                                        ORREADLREGRGLROATDHOELVEIPTRPLLTKLSLITAPRRERGRPSLYVORDIVOETO
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The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer
                                                                                                                                                                                                                                                                                                                                                           Billingel
Granados E
                                                                                                                                                                                       Diagnosing diseases such as c detecting aberrant expression associated treatment methods.
                                                                                                                                                Claim 17;
                                                                                                                                                                                                                                                                                                                                     Roberts-Rapp
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30-MAR-1998;
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                                                                                               SQSSDLLERERESVLRREQEVABERRNALFPEVFSPTPDENSDQNSRSSSGASGITGSYS
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KNAMAERWESRIYASEEDD
                                 VSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH
                                                                                    SQSSDLLERERESVLRREQEVARERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYS
                                                                                                                                   KQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQK
                                                                                                                                                                                     PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
                                                                                                                                                                                                 PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
                                                                                                                                                                                                                                   REEDHRREGLHVGRASTPDWVSEGPOPGLRRALSSDSILSPAPDARAADPAPEVRKVNRI
                                                                                                                                                                                                                                                                                                                                   MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE
                                                                                                                                                                                                                                                                                                                                                                                     LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
          679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 3583; DB 8;
Pred. No. 9.9e-290;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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RESULT 5
ADX97562
ID ADX9
XX
AC ADX9
XX
PT 21-A
XX
DE Panc
XX
XX
DE Panc
XX
XX
CX
KW panc
XX
OS Homc
XX
                        pancreas tumor;
                                        Pancreatic
                                                        21-APR-2005
                                                                                        ADX97562
        sapiens
                                                                                        standard;
                                        cancer associated
                                                        (first
                        cytostatic
                                                                                        protein;
                                                        entry)
                                                                                         692
                                         human
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                                        protein,
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661

KNAMAERWESRIYASEEDD

BP1471075-A2

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                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel human nucleic acid sequence of the CC pancreas and its encoded protein. The invention further comprises: CC proteins and peptides, preferably isolated, that contain a sequence cere encoded by the novel nucleic acid; and methods for diagnosis and contain a sequence cereatent of pancreatic cancer, using a substance that inhibits or binds content protein or its DNA, including: an antisense oligonucleotide, short cerefring RNA or ribozyme directed against the pancreatic protein, an cc organic molecule, particularly having a molecular weight below 5000, ce specially 300, that binds to the pancreatic DNA, an aptamer or ce (monoclonal) antibody, preferably human or humanized, that binds to the pancreatic DNA, or an anti-idiotypic antibody raised against the compound, immunostimulant and/or radioisotope. The novel fuman pancreatic proteins and their encoding DNA have cytostatic compound, immunostimulant and/or radioisotope. The novel cativity. The novel sequences are useful for inhibiting transcription cand/or expression of genes and proteins associated with pancreatic constants of the invention. Note: This sequence is not shown in the specification, it has been electronically downloaded from a DVD-rom compound with this specification by the European Patent Office.
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                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-MAR-2003; 2003DE-01015834.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lichtner R,
                                                                                                                                                                                                                                                                                                                                                                 Sequence 692 AA;
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254
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ROSENTHAL A.
PILARSKY C.
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SPECHT T.
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                                                                           LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
                                                                                                                   MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
                                                                                                                                    MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
                                                                                                                                                                                                                                                          MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPBASGWGQDEPQTWPTDHRAQQG
                  NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                                                                                                                                           MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
                                                                                                                                                                                VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE
LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
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100.0%; Pred. No. 1e-289;
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Roepcke S,
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Li X;
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RESULT 6
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                                                                                                                                15-SEP-2000;
20-OCT-2000;
30-NOV-2000;
                                                                                                                                                                                                                                                                                                                                       Human; cytokine; cell proliferation; cell differentiation;
                                                                                                                                                                                                                                                                                                                                                                                  06-NOV-2001
                                                                                 Tang
Ma Y,
                                                                                                                                                                                  03-FEB-2000; 2000US-00496914
27-APR-2000; 2000US-00560875
20-JUN-2000; 2000US-00598075
                                                                                                                                                                                                                                                                                                                    vaccine; peptide therapy; stem cell growth factor; haematctissue growth factor; immunomodulatory; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                             Human protein
                                                                                                                                                                                                                                                                                                                                                                                                      AAM78590;
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                                       WPI; 2001-476283/51.
N-PSDB; AAK51723.
                                                                                                                                                               19-JUL-2000;
01-SEP-2000;
                                                                                                                                                                                                                           05-FEB-2001; 2001WO-US004098
                                                                      Xue AJ,
                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                             (HYSE-)
                                                                    y YT, Liu C,
Y, Zhao QA,
AJ, Yang Y,
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                                                                                                                                                                                                                                                                                                          system disorder; arthritis;
                                                                                                            HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYS
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                                                                                                                                                                                                                                                                                                                                                                                                                         standard;
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                                                                                                                                 2000US-00560875.
2000US-00598075.
2000US-00620325.
2000US-00654936.
2000US-00653561.
2000US-00693325.
2000US-00728422.
                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
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                                                                     Wang D, W
Wejhrman
                                                                              Drmanac RT,
                                                                                                                                                                                                                                                                                                                                                                                                                         protein;
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                                                                      Asundi V,
J, Zhang
Goodrich R
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J, Ren !
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                                                                                            Cao
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Wang
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Nucleic acids encoding

diagnosis and

gene

g polypeptides with cytokine-like activities, useful therapy.

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RESULT 7
ADG14341
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 679
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                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to human NC1, NC2 and NC3 proteins and coding sequences (ADG14340-ADG14345). The coding sequences are useful for detecting and screening proliferative insulin-producing cells as well as differentiation and proliferation of such cells and their precursors as analogous cells in treatment of e.g. PHHI and diseases due to differentiation/proliferation abnormality, diseases of the nervous system and pancreas. The coding sequences are also useful as spontaneous proliferation models of pancreas beta-cells. The novel genes NC1, NC2 and NC3 were isolated from the pancreas of PHHI patients, which were used in testing for the detection of proliferative insulin-producing cells or pancreas beta-cells by Northern analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI) patient-expressed genes for detecting and screening e.g. proliferatinsulin-producing cells in treatment of PHHI.
                                                                                                                                                                                                                                                                                                                                                                  Sequence
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                                           NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                   QEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ
                                                                                   LDDNVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
                                                                                                                                       MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
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Pred. No. 1e-287;
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27-APR-2000;
20-JUN-2000;
19-JUL-2000;
01-SEP-2000;
15-SEP-2000;
20-OCT-2000;
30-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.
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                                     Nucleic acids encoding polypeptides with in diagnosis and gene therapy.
                                                                                               WPI; 2001-476283/51.
N-PSDB; AAK52707.
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Y, Zhao QA, W
Yang Y,
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2000US-00728422
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QA, Wang D, W
g Y, Wejhrman
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Matches 666
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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666; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SVHAYTGOPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKEMKTYRLDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LGIPQAH-RGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQGVQRQGVSY
                                                                                                                                           RGCPQANRGVVRWEYFRLRPLRFRAPDBPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLE
                                                                                                                                                                                                                                                        GLHVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPY
                                                                                                                                                                                                                                                                                                                                                                                                                                             EQIDFLAARQOFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLANGHVVPIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTPLEENVVDR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LGIPSGNTRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQGVQRQGVSY
                                                                                                                                                                                                                  LSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPP
                                                                                                                                                                                                                                                                                                               EQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQREEDHRRE
                                                                                                                                                                                                                                                                                                                               EORGLROATDHOELVEIPTRPLLTKLSLITAPRRERGRPSLYVORDIVQETOREEDHRRE
                                                                                                                                                                                                                                                                                                                                                                        POVKGVVREENKVRAVPTWAS VQVVDDPGSLAS VES PGTPKETP I EREI RLAQEREADLR
                                                                                                                                                                                                                                                                                                                                                                                        PQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLAQEREADLR
ESRIYASEEDD
                                 PIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGIDPSDGINSEVLEAIRVTRHKNAMAERW
                                               PIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAERW
                                                                                     RERESYLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFS
                                                                                                                                                                                                  LSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPP
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nilarity 99.3%;
Conservative
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     679
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Pred. No. 4.2e-283;
2; Mismatches 2;
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RESULT 9
AAW79681
ID AAW7

AAW79681 standard; protein;

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Best Local S
Matches 215
                                                                                                                                                                                                                                                                                                                         This sequence represents the C-terminal of the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative colitis, and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Billing-Medel PA, Cohen M, Co
Granados EN, Hayden M, Hodges
Roberts-Rapp L, Russell JC, S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New gastrointestinal polynucleotides, CS198, and their detection - for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastriti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ABBO ) ABBOTT LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-1997;
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181
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215; Conserv
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                                                                          NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDFVDSAPPGQRKKEQWYAGINPS 644
                                                                                                                                                                                               MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                215
                DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                    VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                            MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRPRAPDEPQQAQVPH
                                                          NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                   VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 103; 127pp; English.
                                                                                                                                                                                                                                    31.6%; So llarity 100.0%; I Conservative 0;
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                                                                                                                                                                                                                                    Score 1132; DB 2;
; Pred. No. 7.8e-86;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Colpitts TL,
ges SC, Klass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Stroupe SD;
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MR, Kratochvil JD;
 215
                             679
                                                                                                                                                                                                                                                                 Length 215;
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RESULT 10
AAE07324
ID AAE07
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**AAE07324** 

standard;

protein;

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Best Loc Matches Query Match

Local Similarity hes 215; Conserv

100.0%;

0

Mismatches

Indels

0

Gaps

0

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The invention relates to a method of detecting the presence of a target CC CS 198 polynucleotide comprising contacting the test sample with at least CC cone CS 198-specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CC The CS 198 polynucleotides, polypeptides and antibodies are useful for CC treating, diagnosing, staging, monitoring, prognosticating, preventing, cc treating or determining predisposition to disease and conditions of the CC II tract such as cancer, gastric ulcer, gastritis, Crohn's disease, CC ulcerative colitis, pancreatitis and Barret's oscophagus. The CS 198 CC ulcerative colitis, pancreatitis and Barret's oscophagus. The CS 198 CC polypeptides are useful as standards or reagents in diagnostic. CC immunoassays, as components or as target sites for various therapies. CC immunoassays, as components or as target sites for various therapies. CC diagnostic tests and for screening for conditions or diseases associated CC with CS 198, particularly cancer. Monoclonal antibodies may also be used CC polynucleotide is also useful in gene therapy and drug screening. The CS 198 CC polynucleotide is also useful in gene therapy and drug screening. The CC method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is C-terminal portion of human CS 198 polypeptide.
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Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CS 198; gastrointestinal tract disease; GI tract; cancer; gas gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GORD/)
(GRAN/)
(HAYD/)
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(COHE/)
(COLP/)
(FRIE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 17; Page 52-53; 68pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (KRAT/)
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GRANADOS E N.
HAYDEN M.
HODGES S C.
KLASS M R.
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RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FRIEDMAN P N.
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                                                   215
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Hayden M,
L, Russell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C-terminal portion
31.6%; Score 1132; DB 4; 100.0%; Pred. No. 7.8e-86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PN, Gordon
Kratochvil,
                  Length 215;
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RESULT 11
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Granados EN,
Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                 cancer prognosticating; gastrointestinal tract
                                                                                                                                                                                                                                                                                                                                                                                                                            CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer;
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                                                                        Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                           31-MAR-1997;
30-MAR-1998;
The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleot.
                                                                                                                                                                                                                                                                                                                                       23-OCT-2002; 2002US-00278547
                                                                                                                                                                                                                                                                                                                                                           01-MAY-2003
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                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                Claim 52;
                                                                                                                WPI; 2003-596961/56
                                                                                                                                                                                                                                         (GORD/)
                                                                                                                                                                                                                                                            (COLP/)
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                                                                                                                                                                                                             (KLAS/)
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GRANADOS E N.
HAYDEM M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP I
                                                                                                                                                                                                                                                         COLPITTS T I
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                                                                                                                                                                                                                                                                                         BILLINGEL P A.
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Hayden MA,
L, Russell
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98US-00050516.
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                                               67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                    disorder;
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                                                                                                                                  Colpitte TL,
Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CS198
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                                                                                                                                                                                                                                                                                                                                                                                                                           prevention; cancer,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein
                                                                                                                                                                                                                                                                                                                                                                                                                   gene therapy
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SD;
                                                                                                                                             Friedman
Klass MR,
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                                                                                                                                             PN, Gordon
Kratochvil
 polynucleotide
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RESULT 12
ADN17177
ID ADN17
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
 Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                04-MAR-2004.
                                                                                                                                                                                                                                                                                             Unidentified
                                                                                                                                                                                                                                                                                                                  Gastrointestinal tract;
                                                                                                                                                                                                                                                                                                                                         CS198 protein
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                                                                                                                                                                                                                                                                                                                                                                                     ADN17177;
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                                                                                                                                                                                                                           22-AUG-2003; 2003US-00646873
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                                                                                                                                                                                                                                                                                                                                                                                                          ADN17177
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                                                                                                                                                                                          30-MAR-1998;
                                                                   (KRAT/
                                                                              (KILAS/
                                                                                                   (HAYD/
                                                                                                                         (GORD/
                                                                                                                                                        (COHE/)
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215; Conserv
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                                                                 COLDITIS T L.
FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J D
                               ROBERTS-RAPP |
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                    BILLINGEL
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                                                                                                                                                        COHEN M.
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                                                                                                                                                                                                                                                                                                                                                                                                           standard;
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Cohen
Hayden
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98US-00050516.
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100.0%; Pr
1.72 0;
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 Colpitts TL,
Hodges SC,
                                                                                                                                                                                                                                                                                                                    tract;
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Pred. No. 7.8e-86
0; Mismatches 0
                                                                                                                                                                                                                                                                                                                     CS198;
  Friedman
Klass MR,
                                                                                                                                                                                                                                                                                                                     cancer;
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   PN, Gordon
Kratochvil
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                                                                                                                                                                                                                                                                                                                     therapy.
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Klass

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RESULT 13
AAG73987
ID AAG73
XX
AC AAG73
XX
AC AAG73
XX
COLOR
DI O3-SE
XX
HUMAN
KW HUMAN
KW COLOR
XX
HOMO
OS HOMO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Diagnosing diseases such as cancer of the detecting aberrant expression or activity associated treatment methods.
  N-PSDB; AAH33418
                           WPI; 2001-235357/24
                                                                                 Ruben SM,
                                                                                                                                                                                     29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                 28-SEP-2000; 2000WO-US026524.
                                                                                                                                                                                                                                                                                                                            05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                              WO200122920-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        colorectal carcinoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; colon cancer; colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human colon cancer antigen protein SEQ ID NO:4751.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-SEP-2001
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                                                                                                                                      (HUMA-) HUMAN
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                                                                                 Barash SC,
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                                                                                                                                      GENOME
                                                                                                                                                                                     99US-0157137P.
99US-0163280P.
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                                                                                                                                      SCI INC
                                                                                 Birse CE,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cancer antigen; diagnosis; detection;
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                                                                                   Rosen
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of the CS198 polypeptide,
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Nucleic acids encoding 4277 human colon cancer-associated useful for preventing, diagnosing and/or treating colorect
Claim 11; Page 6550-6551; 9803pp; English
                                                                                sociated polypeptides, colorectal cancers.
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cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy colon dark vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For cexample, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome ce that affect the activity of P by expressing inactive proteins or to guplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P carcinomas and cancers. Add37196 to Add37204 and AAB77789 represent carcinomas and cancers. Add37196 to Add37204 and AAB77789 represent sequences used in the exemplification of the present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 cc to 1052, 7921 and 7922

Sequence 172 AA;

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Best Local Similarity
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                   899
                                        101
                                                              809
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161
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                                                                                    41
                                                                                                                               1 PTRPPQANRGVVRWEYFRLRPLRFR-------APALRLQKSQSSDLL
                                                      SPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAER
                                                                                                ERERES VLRREQE VAEERRNAL F PEVFS PT PDENS DQNSRSS SQASG I TGSYS VSES PFF
                                                                                                                                            WESRIYASEEDD
WESRIYASEEDD
                                        SPIHLHSNVAWTVEDXVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAER
                                                                                   ERERESVLEREQEVXEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFF
                                                                                                                                                                        Conservative
                                                                                                                                                                                  23.4%;
                    679
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                                                                                                                                                                        Score 839; DB 4;
Pred. No. 1.6e-61;
0; Mismatches 5
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                                                                                                                                                                                           Length 172;
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                                                                                                                                                                        Gaps
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                                                                                                          607
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RESULT 14
ABO60042
ID ABO60
XX
DT 29-JI
XX
DT 29-JI
XX
Huma
XX
KW Huma
KW Huma
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OS: Hom
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human genome derived single exon protein #6276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABO60042 standard; protein;
                                                                                                                                                                                     03-APR-2002; 2002US-00029386
                                                                                                                                                                                                                                                                                                      03-APR-2002; 2002US-00029386.
                                                                                                                                                                                                                                                                                                                                                                                                                                   16-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003194704-A1
      (PENN/) PENN S G. (RANK/) RANK D R.
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(HANZ/) HANZEL D K.

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ID ABM85
XX ABM85
XX ABM85
XX 18-NC
XX 18-NC
XX Y
DE Human
XX Cytos
XX Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC sequences in the specification, or their complements or fragments, and ce encoding at least 8 amino acids of any of the 688 amino acid sequences (c) fully defined in the specification. The probe is a single exon probe that (c) hybridiese under high stringency conditions to a nucleic acid molecule (c) expressed in human cells or tissues. Also included are a spatially-cc addressable set of single exon nucleic acid probes for measuring human (c) gene expression (comprising a plurality of single exon nucleic acid (c) probes cited above, where each of the plurality of probes is separately cand addressably isolatable or amplifiable from the plurality), a single contiguous amino acids of any of the above—mentioned amino acid (c) contiguous amino acids of any of the above—mentioned amino acid (c) solated antibody that binds specifically to a peptide cited above, and contiguous amino acids of any of the above—mentioned amino acid (c) solated antibody that binds specifically to a peptide cited above, and contomer desiring to measure gene expression, a method of pure tissues to detect the probe, methods and apparatus are useful in gene (c) each record including data on the expression, a method of providing contentive splicing data on the expression of a single exon probe (c) alternative splicing ovents, in detecting and characterising gross (c) alternative splicing ovents, in detecting and characterising gross (c) alternative splicing events, in detecting and characterising gross (c) alternative splicing the sort that includes that includes that includes that includes that for unlaried acids of incled in electronic format directly from USPTO at sequence is a human considered in electronic format directly from USPTO at sequence and in electronic format directly from USPTO at
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Best Local &
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New human genome-derived single exon nucleic acid probes useful for human gene expression analysis, for identifying or characterizing alternative splicing events, for assessing genomic alterations or as tools for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-119264/12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 43
    Homo sapiens
                                        Cytostatic; carcinoma; lymphoma; cancer; human
                                                                          Human protein sequence hCP44130
                                                                                                                    18-NOV-2004
                                                                                                                                                                                              ABM85635 standard; protein; 910 AA.
                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                 595 ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW 637
                                                                                                                                                                                                                                                                                             μ
                                                                                                                                                                                                                                                                                             ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rank DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           on relates to a nucleic acid probe for measuring comprising any of the 27,400 fully defined nucle
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                                                                                                                  (first entry)
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Pred. No. 4.4e-12
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                                                                                                                                                                                                                                                                                                                                                                                         4.4e-12;
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----FSAFGAFGKPSSLSTA-----

QPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLE-----

DGEFTSARAVLTVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDTT-----

ERGRPSLYVORDIVOETOREEDHRREGLHVGRASTPDWVSEGP

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---VLETLSNDFSMDNISDSGASN----ETTNALQENSLADFSLPQTPQTDNPSEGRGE

----EAKAATSPKA-TMSPRHLS

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276

PGSLASVESPGTPKETPIEREIRLAQEREADLRE--QRGLRQATDHQELVEIPTRPLLTK 333

PGALETPSAAGSQGNT-----ASQGKEGPYSEPSKRG-----PLSKLWAE

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336

APASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSRQAV-----AKGQ---STPRL PPRSTPLEENVVDR-----EQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTP--

-GASQAPKAFNKPHLANGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDD

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-RPPSVGGPPEDSGASAAKGQKS-----

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FSIKPFYRPLGSVNSDKPLTNP-

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                                                                                                                                           Matches 155;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                 The present invention relates to novel DNA and protein sequences which are associated with carcinomas. The sequences are useful for: (i) for screening of bioactive agent capable of binding to Carcinoma Associated Protein (CAP); (ii) for screening of a bioactive agent capable of modulating the activity of CAP; (iv) for evaluating the effect of a candidate carcinoma drug; (v) for diagnosing carcinoma; (vi) for inhibiting the activity of CAP; (ix) as a biochip; carcinoma; (vii) for neutralizing the effect of CAP; (ix) as a biochip;
                                                                                                                                                                                                                                                           (x) for diagnosing carcinoma or a propensity to carcinoma, and (xi) for determining Carcinoma Associated (CA) gene copy number. In addition, the CA genes are useful as BNA vaccines and the CAP are useful as markers of carcinoma including lymphoma. The present sequence is one such CAP. Note This patent is an equivalent to basic patent US2002182586AI, for which no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 5; SEQ ID NO 1320; Opp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Recombinant nucleic acid useful for diagnosis and treatment of carcinoma comprises a nucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-MAR-2002; 2002US-00087192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-FEB-2003; 2003WO-US006235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003073826-A2
                                                                                                                                                                                                               Sequence
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                                                                                                      RDAHQGRPTWALRPEDGEDKEMKTYRLDAGDADP-RRLCDLERERWAVIQGQAVRKSSTV
                                                                                                                                                                                                                 910 AA;
                                                                                                                                                                                                                                                  data was
 AAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQQEQLLLQKQLQQQQQQPPSQLCT
                                                                     RAFHEDKKPSKLFEDDEHEKEQYCIR----KVRPSEEMLELEKERRELIRSQAVKKNPGI
                                  AT-----LQGTPDHGDPRTPG----
                                                                                                                                           Conservative
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                                                                                                                                                             19.9%;
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Pred. No. 1.7e-07;
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Search completed: March 3, 2006, 13:35:18 Job time: 366.925 secs

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| BREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ<br>      | NGHTVVDIKEQIJE HAKKQE DSDEQANNOAFERSOFANG I FOLIK GEDECK.  NGHTVVDIKEQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA | MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTEDHGDPRTPGPPRSTP | MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG | Score 3583; DB 2;<br>Pred. No. 1.9e-197;<br>0; Mismatches 0;         | ALIGNMENTS  RESULT 1 T00636 hypothetical protein F21856_2 - human C; Species: Homo sapiens (man) C; Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-J C; Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-J C; Accession: T00636 R; Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; Bur rgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; rgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; rgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; rgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; rgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; rgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; submitted to the EMBL Data Library, January 1998 A; Description: Sequence analysis of a 3.5 Mb contig in 19p13.3 betwee A; Reference number: Z14195 A; Reference number: Z14195 A; Residues: 1-679 < LAM'> A; Map position: 19p13.3 A; Introns: 594/1; 637/3; 650/3 A; Note: F21856_2  | T19304<br>T08760<br>T00837<br>T00037<br>T146481<br>T14609<br>A54970<br>A54970<br>T12566<br>T12566<br>T15893<br>A12566<br>T26517<br>T26517<br>T26517<br>T26517<br>T26517<br>T26517  |
| RERGRPSLYVQRDIVQETQ 360  |  | QGTPDHGDPRTPGPPRSTP 180                                      | GWGQDEPQTWPTDHRAQQG 60                                       | Length 679; Indels 0; Gaps 0;  | ul-2004<br>khart-Sch<br>Ow, D.;<br>en CDC34  | hypothetical prote hypothetical prote hypothetical prote hypothetical prote hypothetical prote hypothetical prote MHC class III hist trfA protein - sli tensin, cardiac mu connectin/titin - protein T23F7.2b [ hypothetical prote hypothetical prote hypothetical prote hypothetical prote protein UNC-89 - C BHLFI protein - hu hypothetical prote |
|  | •  |  |  |  | Nolan, M.;<br>and D198342  |  |

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C;Accession: T42730

R;Dieck, S.; Sammarti-Vila, L.; Langnaese, K.; Richter, K.; Kindler, S.; Soyke, A.; Wex, J. Cell Biol. 142, 499-509, 1998

A;Title: Bassoon, a novel zinc-finger CAG/Glutamine-repeat protein selectively localized A;Reference number: Z22249; MUID:98345363; PMID:9679147

A;Accession: T42730
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()Species: Mus musculus (house mouse)
()Species: Mus musculus (house mouse)
()Date: 1-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004
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                                                                                                                                                                            KRRPHSLSIMPEAFDSD-BELGDILEEDDSLAWG----RQREQQDTAESSDDFGSQLRHDY
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                                                                                                                                          DPRTPGPPRSTPLEENVVDREQIDFLAARQQFLSLEQ---ANKG-APHSSP 215
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R.Dieck, S.; Sanmarti-Vila, L.; Langnaese, K.; Richter, K.; Kindler, S.; Soyke, J. Cell Biol. 142, 499-509, 1998
A;Title: Bassoon, a novel zinc-finger CAG/Glutamine-repeat protein selectively A;Reference number: 222249; MUID:98345363; PMID:9679147
A;Accession: T42761 Bassoon protein - rat N;Alternate names: brain-specific synapse-associated protein C;Species: Rattus norvegicus (Norway rat) C;Date: 11-Jan-2000 #sequence\_revision 11-Jan-2000 #text\_change 09-Jul-2004 A; Description: may be involved in cytomatrix organization A; Note: component of the presynaptic cytoskeleton C; Keywords: coiled coil; zinc finger A; Residues: 1-3938 <DIE>
A; Cross-references: UNIPROT: 088778; UNIPARC: UPI0000E7EDE; A; Experimental source: strain Sprague Dawley; brain A; Molecule type: mRNA A; Status: preliminary; translated Accession: T42761 Query Match Best Local Similarity 161; Conservative 102; Mismatches 249; 20.0%; Score 179.5; DB Pred. No. 0.056; from GB/EMBL/DDBJ DB 2; Indels Length at EMBL:Y16563; NID:g3413503; the 3938 291; gite

localized Α.,

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MKTYRL----DAGDADPRRICDLERERWAVIQGQAVRKSSTVATLQGTPDHG------

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RRPHSLSIMPEAFDSD-EELGDILEEDDSLAMG---RQREQQDTAESSDDFGSQLRHDYV 812

-----OPSPRGLHSENREDEGWQVYRLGAR-----DAHQGRPT--WALRPEDG----EDKE 120

PEAPKSGEAEEPVPKPYSQDLSRSPQSLSDTGYSSDGVSSSQSEITGVVQQEVEQLDSAG PEASGWGQDE---PQTWPTD-HRAQQ-----GVQRQGVSYSVHAYTG-----

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A;Molecule type: DNA
A;Residues: 1-1748 cHAR>
A;Residues: 1-1748 cHAR>
A;Cross-references: UNIPROT:O10172; UNIPARC:UPI0000169027; EMB
A;Cross-references: UNIPROT:D10172; UNIPARC:UPI0000169027; EMB
A;Cross-references: UNIPARCIBL B.G.; Rejandream, M.A.; Wal
submitted to the EMBL Data Library, September 1997
A;Reference number: Z21790
A;Accession: T38380
A;Accession: T38380
A;Accession: T38380
A;Accession: DNA
A;Accession: DNA
A;Residues: 1457-1794 cMCL-
A;Crose-references: UNIPARC:UPI000016208D; EMBL:Z70691; PIDN:C
A;Experimental source: clone c25G10
C;Genetics:
A;Gene: SPAC27F1.01c; SPDB:SPAC25G10.09c
                                                                                                                                                                                                                                                                                                                                                                                               hypothetical divergent repeat-containing protein - fission yeast (Schizosacc, Species: Schizosaccharcmyces pombe C.Date: 20-Oct-2000 #sequence_revision 20-Oct-2000 #text_change 09-Jul-2004 C.Accession: T38459, T38380 R.Harris, D., McDonald, S.; Barrell, B.G.; Rajandream, M.A.; Walsh, S.V. submitted to the EMBL Data Library, February 1996 A.Reference number: Z21794 A.Accession: T38459
Query Match 4.7%; Score 168.5; D
Best Local Similarity 20.9%; Pred. No. 0.09;
Matches 123; Conservative 68; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LR--EQEKMREVEQQRIRS----TARKTRRDKEELRAQR------RRE----
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                                              DB 2;
         213;
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         Indels
                                              Length
                                                                                                                                                                                    PIDN:CAA94638.1; GSPDB:GN00066;
                                                                                                                                                                                                                                                                                                                     EMBL: Z69368; PIDN: CAA93290.1 Walsh, S.V.; Wood, V.
         185;
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         Gaps
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C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revi
C;Accession: 138346
R;Labeit, S.; Kolmerer, B.
science 270, 293-296, 1995
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A; Residues: 1-7962 < RES >
A; Cross-references: UNIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Title: Titins: giant proteins in charge of muscle ultrastructure A;Reference number: A57430; MUID:96026330; PMID:7569978 A;Accession: 138346
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A;Cross-references:
         문
                                                                                                                                                                                        Matches
                                                                                                                                                                                                        Query Match 4.7%;
Best Local Similarity 19.2%;
                                                                                                                                                                                                                                                                                                                                              Genetics:
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                                                                                                                                        70 VHAYTGQPSPRGLHSENREDEGWQVYRLGA-RDAHQGRPTWALRPEDGEDKEMKTYRLDA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          --APAPSSAPAPPAP----VSQLPPAV-----PNVPVPSMIPSVAQQPPSSVAPATAPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -PAVVPTVQHPQPTKQIPTAA----VKDPSTTSTSTNTAPIPQQAPLENQP-----SK 1350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RQQFLSLEQANKGAPHSSP---ARGTPAGT-----TPGASQAPKAFNKPHLANGHVVPI 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SSQAS-----GITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPP
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                                                     GDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTPLEENVVDR
                                                                                                VEPYT-SPFEQPYYEE---DEDYEEIKVEAKKEVHE---EWEEDFEEGQEYYEREEGYDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SKDAAALAAKLFGGMAPAHPVSTPPV---
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                                                                                                                                                                                                                                                                           es: GDB:127867; OMIM:188840
2q31-2q31
                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                   UNIPROT:Q10465; UNIPARC:UPI000011010C; EMBL:X90569; NID:g1017426;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #sequence_revision
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRS 588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAP 534
                                                                                                                                                                                          81;
                                                                                                                                                                                                               Score 167; DB Pred. No. 0.69;
                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                      GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-May-1998 #text_change
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                                                                                                                                                                                             199;
                                                                                                                                                                                                                                    Length 7962;
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                                                                                                                                                                                             Indels
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| H.C # 3   | QY 143 RWAVIQGQAVRKSSTVATLQGTPDHGD   |
|---|--|
| nce number: A44928; MUID:92119623; PMID:1310068 ion: A44928   | QY 83 HSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKEMKTYRLDAGDADPRRLCDLERE 142   |
| A;Cross-references: UNIPARC:UPI000016AEE0; GB:M73548; NID:g190163; R;Miki, Y.; Nishisho, I.; Horii, A.; Miyoshi, Y.; Utsunomiya, J.; Cancer Res. 52, 643-645, 1992  A.Title. Dismusion of the APC gene by a retrotransposal insertion   | OY 23 LDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQGVQRQGVSYSVHAYTGQPSPRGL 82  |
| e Ltt.  | Query Match 4.6%; Score 166; DB 2; Length 1200;<br>Best Local Similarity 20.0%; Pred. No. 0.077;<br>Matches 137; Conservative 91; Mismatches 312; Indels 144; Gaps 29;   |
| A; MOLECULE TYPE: MUNA A; Residues: 1-2843 < XIN> A; Residues: 1-2843 < XIN> A; Cross-references: UNIPROT: P25054; UNIPARC: UPI00000502E5; GB: M740 A; Cross-references: UNIPROT: P25054; UNIPARC: UPI00000502E5; GB: M740 R; Joslyn, G.; Carlson, M.; Thliveris, A.; Albertsen, H.; Gelbert, arrington, J.; McPherson, J.; Wasmuth, J.; Le Paslier, D.; Abderra Cell 66, 601-613, 1991 A.Title: Identification of deletion mutations and three new genes | A;Residues: 1-1200 <way> A;Cross-references: UNIPROT:Q25388; UNIPARC:UPI0000080BFB; GB:M94389; NID:g161291; PID:g A;Experimental source: stellate ganglion A;Note: sequence extracted from NCBI backbone (NCBIP:113499) C;Superfamily: neurofilament triplet H protein C;Keywords: alternative splicing</way>                            |
| X X X   | A; Modecule type: mRNA  A; Modecule type: mRNA   |
| ្នាក់ ដូច   | R.Way, J.; Hellmich, M.R.; Jaffe, H.; Szaro, B.; Pant, H.C.; Gainer, H.; Battey, J. Proc. Natl. Acad. Sci. U.S.A. 89, 6963-6967, 1992  Proc. Natl. Acad. Sci. U.S.A. 89, 6963-6967, 1992  A.Title: A high-molecular-weight squid neurofilament protein contains a lamin-like rod of A.Poferson number. Acids. with 00325751 burn.1730720 |
| RESULT 7  RBHUAP  adenomatous polyposis coli protein - human  N,Alternate names: polyposis coli locus protein DP2.5; tumor suppr  C;Species: Homo sapiens (man)  C:Date: 31-Dec-1991 #text change 09  | RESULT 6 A46194 A46194 neurofilament protein NF-220, high-molecular-weight splice form - longfin squid C;Species: Loligo pealeli (longfin squid) C;Bscession: A46194 C;Bscession: A46194   |
| Db 1095ASEPAKSPIPSEKAESE 1111   | Db 6142 AVPQRVEVTRHEVSABEEWSYSEBEE 6167  |
| QY 613 HSNVAWTVEDPVDSAPPGQRKKEQ 636   | CY 650 EVLEAIRVTRHKNAMAERWESRIYASEED 678   |
| Qy 563 EERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSES   | QY 598 SYSVSESPFFSPIHLHSNVAMTVEDDPV-DSAPPGQRKKEQWYAGINPSDGINS 649  |
| OY 511 FRAPDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESV :   :   :   :   :   :     :           :   | Qy 538 LQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITG 597  |
| Qy 451 STABAKAATSPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWE   :-  | QY 478 LSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALR 537 ::  :  |
| Qy 403 PDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLEFSAFG   ;   ;             ; ;               ; ;   | QY 420 IPPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKP 477  |
| Qy 344 RGRPSLYVQRDIVQETQRE-EDHRREGLHVGRASTPDWVSEGPQPGLRRALS   | Qy       363 EDHRREGLHVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNR 419   |
| Qy 291TPIEREIRLAGEREADLREGRGLRQATDHQELVEIPTRPLLTKLS   | OY 303 READLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQRE 362  |
| Qy 232 KAFNKPHLANGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVE   | QY 249 PQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLAQE 302  |
| Db 657 FQSDKVTSPVLLERAMSLQCAPTEKPLSDTIKSPVVSEPAISPVSSV  | Db 5813 EVIQVQKEVYEESHERKVPAKVPEKKAPPPPKVIKKPVIEKIE 5855   |
| QY 181 LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGT  | OY 189 EQIDELAARQOELSLEQANKGAPHSSEARGTEAGTTEGASQAEKAFNKEHLANGHVVEIK 248  |

| ъ      | 657  | FQSDKVTSPVLLERAMSLQCAPTEKPLSDTIKSPVVSEPAISPVSSVRSGAETSP 711      |
|--------|------|--|
| ¥      | 232  |  |
| g      | 712  | AERMTSPIGSGSEKSAKSPVRSEATKSPVSEKSAGSKSKSP-VPSER 757              |
| ¥      | 291  | TPIEREIRLAQEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRE 343        |
| Å      | 758  | ALSPVLSEMSVHSTAMSHTSRSPTASEKSVKSPT-HSERTASPTAKSPIIMEPAKS 812     |
| ¥      | 344  | RGRPSLYVQRDIVQETQRE-EDHRREGLHVGRASTPDWVSEGPQPGLRRALSSDSILSPA 402 |
| ₽<br>P | 813  | PKDESEKELSPERSESVMSGKSQITSSSAKSPVPS-EKADSEKSATSPT 860            |
| ¥      | 403  | PDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLEFSAFGAFGKPSSL 450             |
| å      | 198  | PSEKVDDESSARSPTHSDRSESQKSARSPMTSDHIKSPIDFEKAESEKSALSYKSSDHDK 920 |
| ¥      | 451  | STAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLR 510 |
| Ъ      | 921  | SPVPSEKAESEKSARSPVP-SEKAESEKSARSPVTSEPAKSPVPSEKAAESEKSARSPVP 979 |
| ¥      | 511  | FRAPDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVA 562         |
| Ъ      | 980  | SEKAESEKSARSPVPSEKAESEKSARSPVPSEKDESEKSAKSPTSDQARSPVPSEKA 1036   |
| Ϋ́     | 563  | EERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESEFFFSPIHL 612          |
| ₽<br>D | 1037 | SEKSARSPVTSEHVKSPVPSEKSESEKSARSPVTSEHVKSPVPSEKAESEKSAKSPV 1094   |
| ¥      | 613  | HSNVAWTVEDEVDSAPPGQRKKEQ 636                                     |
| ъ      | 1095 | 1095ASEPAKSPIPSEKAESE 1111                                       |
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vision 31-Dec-1991 #text\_change 09-Jul-2004 928; A49319; I54271 Su, L.K.; Vogelstein, B.; Bryan, T.M.; Levy, D.B.; Smith, Miyoshi, Y.; Miki, Y.; Nishisho, I.; Nakamura, Y. in - human i locus protein DP2.5; tumor suppressor APC

)54; UNIPARC:UPI00000502E5; GB:M74088; NID:g182396; PIDN:*l* reris, A.; Albertsen, H.; Gelbert, L.; Samowitz, W.; Grode wanth, J.; Le Paslier, D.; Abderrahim, H.; Cohen, D.; Leg ion mutations and three new genes at the familial polypos ;91330307; PMID:1678319

1',971-1308,'G',1310-1324,'SS',1326,'HSTLE',1332-1354,'P',100016AEE0; GB:M73548; NID:g190163; PIDN:AAA60354.1; PID: A.; Miyoshi, Y.; Utsunomiya, J.; Kinzler, K.W.; Vogelste

ene by a retrotransposal insertion of L1 sequence in a cos;22119623; PMID:1310068

00003546B; GB:S78214; NID:g243541; PIDN:AAB21145.1; PID:q NCBI backbone (NCBIN:78214, NCBIP:78218) yden, J.; Robertson, M.; Samowitz, W.; Joslyn, G.; Gelber

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Hum. Genet. 90, 650-652, 1993

A;Title: Identification of an alternative 5' untranslated A;Reference number: I54271; MUID:93186137; PMID:8383094
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A;Title: Alleles of the APC
A;Reference number: A49319;
A;Accession: A49319
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A; Residues: 1-4 <LAM>
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;Keywords: cancer; familial adenomatous polyposis; tumor suppressor
;1-730/Domain: leucine-rich <NTD>
;7-72/Region: coll #status predicted
;185-227/Region: coll #status predicted
;731-2832/Domain: serine-rich <CTD>
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;Residues: 'G',143-171,'P',173-179 <SPI>
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21.1%; Pred. No. 0.22;
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R;Ishikawa, K.; Nagase, T.; Suyama, M.; Miyajima, N.; Tanaka, A.; Kotani, H. DNA Res. 5, 169-176, 1998
A;Title: Prediction of the coding sequences of unidentified human genes. X. A;Reference number: Z14142; MUID:98403880; PMID:9734811
A;Accession: T00365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hypothetical protein KIAA0670 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 01-Feb-199 #sequence_revision 01-Feb-19
C;Accession: T00365
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QTVSSGATNGAESKTLIYQMAPAVSKTEDVWVRIEDCPINNPRSGRSPTGNTPP
                                                                                                                                                                                                                                                                                                                                                        EIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQREED-HRREGLHVGRASTPDW-V 381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DAHQGRPTWALRPEDGEDKEMKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVAT 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SSQASGIT-GSYSVSESPFFSPIHLHSNVAWT-VED--
                                                                                                                                                                                                                                                                                                                            ---AQPLPLKIE-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PLLTKEASSPP----PHPQLHSEEBIEPMEGPAPPVLIQLSPPNTDADTRELLVSQHTV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KSHLAR-----QQQEKEMKT-----TSPLEEEEREIKSSQGLKEKS----
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                                                   KCEAEEAEPP----
                                                                                                                   EVATPP--VPQLQVCEPKERTSTSSSSVQARRLSQPESAEKHVTQ----RLQPER-GSPK
                                                                                                                                                   EASKPPRGCPQ-----
                                                                                                                                                                                       -----KMGSRSTSESRSRSRSRSRSRSRSRKSLSPGVSRDSSTSYTETKDPSSGQ
                                                                                                                                                                                                                 EFSAFGAFGKPSSLSTAEAK------AATSPKATMSPRHLSESSGKPLSTK-----Q
                                                                                                                                                                                                                                                                                        SEGPOPGLERALSSDS----ILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSP-GTPQL 436
                                                                                                                                                                                                                                                                                                                                                                                               QLV---GGLSPLSSPSDTKAESPAEKVPEESVLPLVQKSTLADYSAQKDLEPESDRS---
                                                                                 --EPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERER--ESVLRREQ---EVAEERRNA 568
                                                                                                                                                                                                                                                        Conservative
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                                                 -AATQPQTSETQTSHLPESERIHHTVEEKEEVTMDTSENRPEN 722
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-DQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAW
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A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: mRNA

A;Residues: 1-789, 'PGGHTG' <DO3>
A;Cross-references: UNIPARC:UPI0000027DDD; EMBL;AF033276; NID:g2852700; PID:g2852701

A;Note: binds the regulatory subunits (RII) of protein kinase AII isoforms
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            T09225
A kinase anchor protein AKAP-KL isoform 1 - mouse
C.Species: Mus musculus (house mouse)
C.Date: 11-Jun-1999 #sequence revision 11-Jun-1999 #text_change
C.Accession: T09225; T09227
R.Dong, F.; Feldmesser, M.; Casadevall, A.; Rubin, C.S.
J. Biol. Chem. 273, 6533-6541, 1998
A.Title: Molecular characterization of a cDNA that encodes six i
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Note: binds the regulatory subunits A; Accession: T09227
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A;Note: binds the regulatory subunits (RII) of protein kinase AII isoforms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: mRNA
A; Residues: 1-848,862-885 < DO2>
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A;Note: binds the regulatory subunits (RII) of protein kinase AII isoforms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1-885 < DON>
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Similarity 19.1%;
TPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQL : | : | : | : | : | : | : | | | | |
                                                                                                                                                                                                  QVVDDPGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQATDHQE--LVBIPTR
                                                                                                                                                                                                                                              TEQIDESAARKQEQLMENSRQTLAKGQSTPRLESIKEYYKELGSIHSDKEETILREATVG
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                                                                                                                                                                                                                                                                                                                                                                                  ----REQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGA------
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                                                                                                                                                                                                                                                                                                                                                                                                                                AVKKNPGIAA-
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                                                                                                                                                                                                                                                                                          ----SQAPKAP-----NKPHLANGHVVP----IKPQVK--GVVREENKVRAVPTWASV
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                                                                                                                                                        --QKAPCVSESQSAGAGPAN-----AATQGKEGPYSEPSKR
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                                                                                                            SLITAPRRE-RGRPSLYVQRDIVQETQREEDHRREGLHVGRAS
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Pred. No. 0.089;
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C;Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 09-Jul-2004
C;Accession: T03455
R;Frasad, R.; Zhadanov, A.B.; Sedkov, Y.; Bullrich, F.; Druck, T.; Rallapal.
Oncogene 15, 549-560, 1997
A;Title: Structure and expression pattern of human ALR, a novel gene with s
A;ReTerence number: Z14954; MUID:97388474; PMID:9247308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Map position: 12
C;Superfamily: acute lymphoblastic leukemia protein,
C;Keywords: alternative splicing
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A; Residues: 1-4957 < PRA>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               162;
                                                                                                                                                                                                                                                                                                                                                           70 VHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWAL-RPE---DG--EDKEMKT 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.4%;
Similarity 21.4%;
52; Conservative 82
                                                                                       VVPIKPQVKGVVREENKVRAVPTWASVQVVD----
                                                                                                                                   D-LDRISTEEL-PKMESKDLQQLFKDVLGSEREQHLGCG-TPGLEGSRTPLQRPFLQGG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                GPEA-----SGWGQ-DE--PQTWPTDHRAQQGV------QRQG-----VSYS
  PIEREIRLAQEREAD--LREQRGLRQATDHQELVEIPT-RPLLTKLSLITAPRRERGRP-
                                                                                                                                                                                                                           SQ--KGDDGP----DIADEESRGLEGKADTPGPEDGGVKASPVPSDPEKPGTPGEGMLSS 1293
                                                                                                                                                                                                                                                                     YRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTPLEE
                                                                                                                                                                                                                                                                                                                 QEAFFG----KELLDLSRK----ALFAVGV-----GRPSFGLGTPKAKGDGGSERKELPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ETHKSKRERMDDSSYTSKLLSCKVTSEVLEATRVNRRKSA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DSAPPGQRKK---EQWYAGINPSDGINSEVLEAIRVTRHKNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LRIQKSQSSDLLERERESVLRREQEVAEER-----RNALFPEV-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LREKGPSQPPTAAQPSGPVNMEETRPEGGYFSKYSEAAELRSTASLLATQESDVMVGPFK 730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LRFRAPDEPQQAQVPH------VWGW------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AHTSKEGSEQQEPEATVEEAGSQTPGSEKPQGMFAPPQVSSPVQEKRDILPKNLPAEDRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNPSEGREGVSKSFSDHGFYSPSSTLGDSPSVDDPLEYQAGLLVQNAIQQAIAEQVDKAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TT-----VLETLSNDFSMDNISDSGASNETTSALQENSL-----ADFSLPQTPQT
                                              -LPL----GNLPSSSPMDSYPGLCQSPFLDSRERGGFFSPEPGEPDSPWTGSGGTTPST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GKIEKVKPPPSPTTEGPSLQPDLAPEEAAG-----TQRP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -----FSPTPDENSDONSRSSSOASGITGSYSVSESPFFSPIHLHSNVAWTVEDPV.624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LRSRKORTLSMIEEE IRAAQEREEELKROROVROSTPSPRAKNA--PSLPSRTTCYKTAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RHLSESSG---KPLSTKQEA-----SKPPRGC---PQANRGVVRWEYF-----RLRP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ---FSAFGAFGKPSSLSTAEA-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            82;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 159; DB
Pred. No. 1.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241;
                                                                                       -----DPGSLAS--VESPGTPKET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -----KAATSPKATMSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 4957;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ----EVAGAPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               272;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T.; Rallapalli,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - KULMOTLMEDY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene with strong homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                   1239
                                              1403
                                                                                          291
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  610
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1655
2093
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1763 WSSRCKQIMKLWRKVPAADKAPYLOKAKDNRAAHRINKVQKQAESQINKQTKVGDIARKT 1822
                                                                                                    2035
                                                                                                                                                                                                                                                                                                              1933
                                                 573
                                                                                                                                                     517
                                                                                                                                                                                                                                                          463
                                                                                                                                                                                                                                                                                                                                                                  431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            244 VVPIKPQVKGVVREENKVRAVPTWASVQVVD------DPGSLAS--VESPGTPKET 291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         401 ---PAPD-----
                                                                                                                                                                                                                                                                                                           OPPMLGASSRPGAGOPGEFHTTPPGTPRHOPSTPDPFLKPRCPSLDNLAVPESPGVGGGK 1992
                                           VFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSP 609
                                                                                                                                                                                                                                                                                                                                                                                                                   GSVPGPDSPGELFLKLPPQVPAQAPSQDPFGLAPAYPLEPRFPTAPPTYPPYPSPTGAPA 1932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PIEREIRLAQEREAD--LREQRGLRQATDHQELVEIPT-RPLLTKLSLITAPRRERGRP- 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -LPL----GNLPSSSPMDSYPGLCQSPFLDSRERGGFFSPEPGEPDSPWTGSGGTTPST
                                                                                                                                                   PQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNA----LFPE 572
                                                                                                                                                                                                         ASEPLLSPPPFGESR-KALEVKKEELGASSPSYGPP--NLGFV---
                                                                                                                                                                                                                                                       AT---MSPRHLSESSGKPLSTKQE---ASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDE 516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PTTP----TTEGEGDGLSYNORSLORWEKDEELGQLSTISPVL--YANINFPNLKQDYPD 1762
                                                                                                    PSSG--THLGGLELKTPDVFKAPLTPRASQVEPQSPGLGLRPQEPPPAQALAPSPPSHPD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -----SLYVQR------ 359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ----ARAADP---APEVRKVNRIP--PDAYQPYLS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              --EGLHVGRASTPDWVSEGPOPGLRRALSSDSILS--- 400
                                                                                                                                                                                                                                                                                                                                                               -PGTPQLEFSAFGAFGKP----SSLSTAEAKAATSPK 462
  -GSYT---DPYAQP 2106
                                                                                                                                                                                                              -DS 2034
                                                                                                            2092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 430
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"RESULT 12
A12284
translation initiation factor IF-2 [imported] - Nostoc sp. (strain PCC 7120)
translation initiation factor IF-2 [imported] - Nostoc sp. (strain PCC 7120)
A;Note: Nostoc sp. epcc 7120 is a synonym of Anabaena sp. strain PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
C;Date: 14-Dec-2001 #sequence\_revision 14-Dec-2001 #text\_change 09-Jul-2004
C;Date: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
C;Genetics:

\*\*Residues: Nostoc sp. strain PCC 7120
C;Genetics:

\*\*Residues: 1-1039 < KUR>
A;Residues: 1-1039 < KUR>
A;Residues: UNIPROT:08YQJ1; UNIPARC:UPI00000CE912; GB:BA000019; PIDN:BAB75531.1,
A;Genetics:

A;Gene: infB
A;Gene: infB
C;Superfamily: translation initiation factor IF-2; translation elongation factor Tu
C;Superfamily: translation initiation factor IF-2; translation elongation factor Tu
Query Match
Best Local Similarity 20.3\*; Pred. No. 0.18;
Best Local Similarity 20.3\*; Pred. No. 0.18;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 180; Gaps 25;
Matches 107; Conservative 59; Mismatches 180; Indels 18

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RESULT 13

T02345

T02345

hypothetical protein KIAA0324 - human (fragment)

C;Species: Homo sapiens (man)

C;Species: Homo sapiens (man)

C;Accession: T02345

R;Ricke, D.O.; Bruce, D.; Mundt, M.; Doggett, N.; Munk, C.; Saunders, E.; Robinson, re, J.; White, S.; Ueng, S.; Tatum, O.; Campbell, C.; Fawcett, J.; Deaven, L. submitted to the EMBL Data Library, March 1998

A;Reference number: Z14664

A;Reference number: Z14664

A;Accession: T02345
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A;Molecule type: DNA
A;Residues: 1-1791 <RIC>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Introns: 1610/
A;Note: KIAA0324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Map position: 16
A;Introns: 1610/2; 1706/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: UNIPROT:O60382; UNIPARC:UPI00000730AE; EMBL:AC004493; NID:g2996648;
                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           530
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                                  645
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                                                                         361
                                                                                                                   593
                                                                                                                                                                                                                                      261
406
                                                                                                                                                                                                                                                                                                                                                                                                                                   h 4.4%; Score 156.5; DB 2;
Similarity 21.7%; Pred. No. 0.44;
18; Conservative 66; Mismatches 186;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HRREGLHVGRASTPDWVSEGPOPGLRRALSSDSILSPAPDARAADPA----PEVRKVNR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PEVFSPT-----PDENSDQNSRSSSQAS-----GITGSYSVSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GKPERQPKPQLVAPPSRPTAEKLDLSEITGAPGEKPILKRDRP------RRED
                                                                                                                                                                                                                                                                           KDIPRTPSRGRSECDSSPEPKALPQTPRPRSRSPSSPELNNKCLTP-----QRERS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APISSPITRGKRSSHNNRDQNRRQETEVKRERPEKVAVTGAMTVQE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KAGKAGVKGKRVKPLVEDDFEDEDLLDEEGLEIPATVQVSLSIARPPKPKAARSASAATA 416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T----PPRGVPGGGRGEA-GDTAAIAPDLLDLKRPTPPRLAKGGKKWQEEEIIDEIKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ERDOA------KPRVAKPAQGET--SSAPVQKQARPAQGLVKPE-QRVNR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GLRQATDHQELVEIPTRPLLTKLSL--ITA----PRRERGRPSLYVQRDIVQETQREED 364
----RAADPAPEVRKVNRIPPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATS 460
                                                                         REEDHRREGLHVGRASTPDWVSEGPQ--PGLRRALSSDSILSPAPDA------
                                                                                                                   SSPDSKAKTRTPLRQRSRSGSSPEVDSKSRL----SPRRSRSGSSPEV-KDKPRAAP
                                                                                                                                                                                                                                    VRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLAQEREADLR-----EQRG---
                                                                                                                                                                                                                                                                                                                  -----NKPHLANGHVVPIKPQVKGVVREENK
                                                                                                                                                                                                                                                                                                                                                         PRTPSRERSS----SASSPEMKDGLPRTPSRRSRSGSSPGLRDGSGTPSRHSLSGSSPGM 498
                                                                                                                                                                                                                                                                                                                                                                                            PRTPGPPRSTPLEENVVDREQIDFLAARQQFLSLEQANKGAPHSS--PARGTPAGTTPG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ---VAGAPALRLQ-----KSQSSDLLERERESVLRREQ-----EVAEERRNALF 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TKQBASKPPRGCPQANRGVVRWEYFRLRP--LRFRAPDBPQQAQVPHVWGWE------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IPPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -----RPVPRNLS-----ETPQKPAAPEAEPEAQSQAPAKIAVEKPEKSAQPRP 190
                                                                                                                                                        -----LRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ 360
                                    -GSDSSPEPKAPAPRALPRRSRSGSSSKGRGPSPEGSSSTESSPEHPPK
                                                                                                                                                                                                 GSESSVDQK-TVARTPLGQRSRSGSSQELDVKPSASPQERSESD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ----GIRPQRPVRP----SADAAPVA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1791;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels 173;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          462
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C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: I37183
R;Schiaffino, M.V.; Bassi, M.T.; Rugarli, E.I.; Renieri, A.; Galli, L.; Ballabio,
Hum. Mol. Genet. 4, 373-382, 1995
A;Title: Cloning of a human homologue of the Xenopus laevis APX gene from the ocul
A;Reference number: I37183; MUID:95315933; PMID:7795590
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A;Map position: Xp22.3-Xp22.3
F;32-104/Domain: GLGF domain homology <GLG>
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                    RKPLEARSSGRCHSADDILDVSLDPQERPQHVHGRSRSSPSTDHYKQEASVELRRQAG--
                                                         NKP-----HLANGHV-VPIKPQ-----VKGVVREENKVRAVPTWASVQVVDDPGSL 279
                                                                                                                                                                                                                                                                                                                                                                             AGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDH-----
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68; Mismatches
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| 1597                           | Qy 161 LQGTPDHGDPRTPGPPRSTPLEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPAR  |
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| 1538                           | QY 110 ALRPEDGEDKEMKTYRLDAGDADPRRLCDLERERWAV-IQGQAVRKSSTVAT   |
| 1484                           | QY .87 REDEGWQVYRLGARDAHQGRPTW   : :  |
| 1424                           | OY 38 PEASGWGQDEPQTWPTD-HRAQQGVQRQGVSYSVHAYTGQPSPRGLHSEN  |
| 33;                            | Query Match 4.4%; Score 156; DB 2; Length 2774;<br>Best Local Similarity 20.7%; Pred. No. 0.8;<br>Matches 151; Conservative 75; Mismatches 256; Indels 246; Gaps  |
| 4,'D',766,'LR<br>877,'Q',879,' | A;Status: preliminary A;Nolecule type: mRNA A;Residues: 73-364,'NRLRS',370,'QKN',374,'PSPKGL',381-751,'RSMMSQMNAQRR',764,'D',76 A;Residues: 73-364,'NRLRS',370,'QKN',374,'PSPKGL',381-751,'RSMMSQMNAQRR',764,'D',76 A;RENMCPQPRQSP',851,'V',853,'NSL',855,'LPMRURTN',865,'W',867,'HSQLPDGGD',877,'Q', A;Crose-references: UNIPARC:UPI000017752D; EMBL:X66840 A;Experimental source: strain Sprague Dawley C;Superfamily: microtubule-associated protein MAPIB C;Keywords: microtubule binding; phosphoprotein |
|                                |   |
| 205537; PIDN:                  | A; MOLECULE type: mxNA<br>A; Residues: 1-2774 < LAN'<br>A; Cross-references: UNIPROT: P34926; UNIPARC: UPI000012EBC2; GB: M83196; NID: 92<br>A; Note: sequence extracted from NCBI backbone (NCBIN:111039, NCBIP:111040)<br>R; CrayChik A   |
| n one messeng                  | J. Biol. Chem. 267, 16561-16566, 1992 A,Title: Microtubule-associated proteins IA and LC2. Two proteins encoded in A;Reference number: A43359; MUID:92355629; PMID:1379599 A;Accession: A43359  |
|                                | C;Accession: A43359; SZZ108 R;Langkopf, A.; Hammarback, J.A.; Muller, R.; Vallee, R.B.; Garner, C.C.  |
|                                | RESULT 15 A43359 microtubule-associated protein MAPIA - rat C;Species: Rattus norvegicus (Norway rat) C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004   |
|                                | NNTTVKMVPIKIVHSESQPEKESRO   |
|                                | Oy 550 ERES   |
| 1199                           | OY 490 GCPQANRGVVRWEYERLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLER !   |
| 1154                           |   |
| 489                            | 1042 HANGQUOMEVOUALLIONNEAEQ-NEEEEENINGERANINALDOMERUSEVOVAGNEEEEEEEGEN   |
| 434                            | 391 RALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTP  |
| 1041                           | 998 CRGAPELPREGRGRAGTLPRDYRYSEESTPADLGPRAQSPGSPL  |
| 390                            | 337 ITAPRRERGRESLYVQRDIVQETQREEDHRREGLHVGRASTP-DWVSEGPQPGL-R  |
| 336<br>997                     | Qy 280 ASVESPGTPKETPIEREIRLAQEREADLREQRGLRQATDHQELVEIPTRPLLTKLSL:   |
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Search completed: March 3, 2006, 13:36:29 Job time : 47.8912 secs

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PIR; T00636; T00636.
Ensembl; ENSG00000099812; Homo sapiens.
HGNC; HGNC:27000; C19orf21.
Coiled coil.
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                                               Pongo.
NCBI_TaxID=9600;
                                                                 Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homin
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RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
RA Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
RA Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
RA Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
RA Najai K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Cootbani L.E., Cousins S.,
RA Gassterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertee G., Pesole G.,
RA Petroveky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelln A., Schmeider C., Semple C.A., Setou M., Shimada K.,
RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayateu N.,
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
RA Miyazaki A., Sakai K., Kasai D., Shibata K., Shinagawa A.,
RA Miyazaki A., Sakai K., Kasai D., Shibata K., Shinagawa A.,
RA Miyazaki A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA Miyazaki A., Sakai K., Katari D., Shibata K., Shinagawa A.,
RA Miyazaki A., Sakai K., Katari D., Shibata K., Shinagawa A.,
RA Miyazaki A., Sakai K., Katari D., Shibata K., Shinagawa A.,
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Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Rabin G.M., Hong L.,

A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Stapleton M., Guellano N.A., Peters G.J., Abramoon R.D., Mullahy S.J.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramoon R.D., Mullahy S.J.,

A Raha S.S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

A Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

A Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,

"Generation and initial analysis of more than 15,000 full-length human

"Generation and initial analysis of more than 15,000 full-length human
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MEDLINE=22354683; PubMed=12466651; DOI=10.1038/nature01266;
Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kon
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Muroidea; Muridae; Murinae; Mus.
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"Analysis of the mouse transcriptome 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
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EMBL; BC013508; AAH13508.1; -; mRNA.
Ensembl; ENSMUSG00000035852; Mus musculus
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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
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Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
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                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Veramphibia; Batrachia; Anura; Mesobatrachia; Xenopodinae; Xenopus; Xenopus.
TISSUE=Spleen;
MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;
Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton
                                                                                                                                                                                                                                                                               25-OCT-2004 (TrEMBLrel.
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                                                                                                                                                                                                                                     LOC495240 protein.
Name=LOC495240;
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                                                                              SEQUENCE
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ia; Pipoidea; Pipidae;
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RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RX Klausner R.D., Collins F.S., Wagner L.H., Schaefer C.F., Bhat N.K.,
RX Altechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RX Altechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RX Altechul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RX Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RX Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,
RX Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,
RX Hopkins R.F., Jordan B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RX Hopkins R.F., Jordan B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RX Hopkins R.F., Jordan B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RX Hopkins S., MocEwan P.J., McKernan K.J., Abramson R.D., Mullahy S.J.,
RX Hopkins S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RX Hopkins S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RX Hopkins S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
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RX Hopkins S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RX Hopkins S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
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RX Hopkins S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RX Hopkins S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RX Hopkins S., Sanches A., Shouter S.J., Worley S., Sanchez A.,
RX Hopkins S., Sanchez A., Shouter B.M., Schnerb A., Schein J.E., Jones S.J.M., Marra M.A.,
Hopkins S., Schench J.E., Jones S.J.M., Marra M.A.,
Hopkins S., Shouter S., Worley S., Sanchez B.,
Hopkins S., Sanchez B., Marra M.A.,
Hopkins S., Schenches S., World H.L., Schen J., Schen S.,
Hopkins S., Sanchez B., World H.L., Schen S., Shouter S., Schen J., Schen J., Schen S.,
Hopkins S., Sanchez B., World H.L., Schen B., Schen B., Schen J., Schen J., S
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"Genetic and (
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Klein S., Gerhard D.S.;

Klein S., Gerhard D.S.;

Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

EMBL; BC084662; AAH84662.1; -; mRNA.

EMBL; BC084662; AAH84662.1; -0 mRNA.

EMBL; BC084662; AAH84662.1; -0 mRNA.

EMBL; BC084662; AAH84662.1; -0 mRNA.
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                                            SNETMSAQHDYSLGDLSQPQTPVNDTLNEYILEEGSKYDQGFYSPSSMLQDIDDQLDYHA
                                                                                                                                           VLKDDDSDLSDRFVKSVSVSFLPEEQDSGLDDLSIKSQDTTVMETLSNYFSMDNISDSGA
                                                                                                                                                                                          PI----EREIR-----LAQEREADLREQRGLRQATDHQELV-----
                                                                                                                                                                                                                                    GETPLVKAERVNCISEDQPTMNQRLMADASPEPSADIDLQDEKVSKRSAEEFVSATASFT
                                                                                                                                                                                                                                                                                     REENKVRA-----VPTW-----
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-RDIVQETQREEDHRREGLHVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAA 408
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                                                                                          -EIPTRPLLTKLSLITAPRRERG--RPSLYVQ-
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Pred. No. 0.00027
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                                                                                                                                                  RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y., RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S., RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., Ra Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., Ra Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., Ra Aizawa K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., Ra Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., Ra Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H., Ra Fleischmann W., Staubhi F., Suzuki R., Tomita M., Wagner L., Washio T., Ra Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., Ra Schriml L.M., Staubhi F., Suzuki R., Tomita M., Wagner L., Washio T., Ra Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G., Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F., Ra Sasaki M., Butt C., Fletcher C., Fujita M., Gariboldi M., Ra Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H., Ra Lyons P., Marchionni L., Mashima J., Mazazarelli J., Mombaerts P., Ra Myrohoe P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Ra Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F., Ra Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L., Ra Myrohaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (Mouse).
Eukaryota; Metazoa; Cho
Mammalla; Eutheria; Eua
Muridae; Murinae; Mus.
NCBI TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN=C57BL/6J; TISSUE=Testis;
MEDLINE=99279253; PubMed=10349636; DOI=10.10
Carninci P., Hayashizaki Y.;
"High-efficiency full-length cDNA cloning.";
Meth. Enzymol. 303:19-44(1999).
                                     Nature
[3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=C57BL/6J; TISSUE=Testis; MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
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library, clone:4932411M01
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23, Last sequence update)
25, Last sequence update)
25, Last annotation update)
testis cDNA, RIKEN full-length enriched
01 product:A kinase anchor protein 2, fu
                                                                                                  full-length
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Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,

A pukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,

A Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,

A Hori F., Imotani K., Ishii Y., Icoh M., Kagawa I., Kasukawa T.,

A Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,

A Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,

Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,

A Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,

Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,

A Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,

A Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Sano H.,

A Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,

Basaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,

A Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,

A Togawa A., Tokahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,

A Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;

Bubmitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 163; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P., Konno H., Akiyama J., Nishi K., Nagaoka S., Sasaki N., Carninci P., Sumi N., Ishi Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Mateumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M., Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Mateunura S., Kawai J., Okazaki Y., Muzamatsu M., Inoue Y., Kira A., Hayyashizaki Y., "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer."; Genome Res. 10:1757-1771(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., It Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.; "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genome Res. 10:1617-1630(2000).
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                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60,770 full-length cDNAs.";
Nature 420:563-573(2002).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN-C57BL/6J; TISSUB-Testis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           GO:0051018; F:protein kinase A binding; IPI.
GO:0007015; P:actin filament organization; IDA.
GO:0008104; P:protein localization; IPI.
                                                                                                                                                                                                                                                                                                                                                                                                                                              GO:0007178; P:transmembrane receptor protein serine/threo.
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                                                                                                                   AVRKSSTVATLQGTPDHGDPRTPGPPRSTPLEENVVD---
                                                                                                                                                             KKEAKFELRAFHEDKKPSKLFEEDEREKEQFCVR----KVRPSEEMIELEKERRELIRSQ
LQQQQQQQLQQQQLQQQQLQQQQLQQQQLSTSQPC-TAPAAHKHLDGIEHTKEDVV
                                       ----REQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGA---
                                                                             AVKKNPGIAA-----
                                                                                                                                                                                                 -QVYRLGARDAHQGRPTWALRPEDGEDKEMKTYRLDAGDADP-RRLCDLERERWAVIQGQ
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                                                                                                                                                                                                                                                                                                                                                                                                      97137 MW;
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                                                                                                                                                                                                                                                                                                                        Score 210.5; |
Pred. No. 0.01
LS; Mismatches
                                                                             -KWWNPPQEKTIEEQLDEEHLESHRKYKERKEKRAQQEQLQ
                                                                                                                                                                                                                                                                                                                                                                                                        1CD1888BA492C55D CRC64;
                                                                                                                                                                                                                                           -LGNSLQAPASPSSSTSSHCSSRDGEFTLTTL
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| ::   |         |
|--|---------|
| GRIEDVREFESELIEGESINGEUINSESERINSTRIKUTRHKUNAMAERWESRIYASEEDD 679    | Db /89  |
| 574FSPTPDENSDQNSRSSSQASGITGSYSVSESSPFSSPIHLHSNVAWTVEDDV 624          |         |
| LRSRKQRTLSMIEEEIRAAQEREEELKRQRQVRQSTPSPRAKNAPSLPSRTTCYKTAP 78        | Db 731  |
| TRIQKSQSSDILERERESVIRREQEVAEERRNALFPEV                               | Ογ 536  |
| LREKGPSOPPTAAOPSGPVNMEETRPEGGYFSKYSEAAELRSTASLLATOESDVMVGPFK 730     | Db 671  |
| LRFRAPDEPQQAQVPHVWGWEVAGAPA 535                                      | Ωу 509  |
|  | Db 611  |
|  | Оу 468  |
| DNPSEGREGVSKSFSDHGFYSPSSTLGDSPSVDDPLEYQAGLLVQNAIQQAIAEQVDKAE 610     | Db 55:  |
| 437 EKAATSPKATMSP 467  | Dy 43   |
| TTVLETLSNDFSMDNISDSGASNETPSALQENSLADFSLPQTPQT 550                    | Db 506  |
| TPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQL 436     | 2y 377  |
| GPLSKLWAEDGEFTSARAVLTVVKDEDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQD 505     | Db 446  |
|  | 2y 329  |
| GTLEDGGTQAAKEQKAPCVSESQSAGAGPANAATQGKEGPYSEPSKR 44                   | Db 399  |
| 271 QVVDDPGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQATDHQELYEIPTR 328   | 2y 27:  |
| 339 TEQIDESAARKQEQLMENSRQTLAKGQSTERLESIKEYYKELGSIHSDKEETILREATVG 398 | л́ъ зз: |
| SQAPKAFNKPHLANGHVVPIKPQVKGVVRBENKVRAVPTWASV 270                      | у 228   |

RESULT 6
Q46389\_TETNG PRELIMINARY; PRT; 711 AA.
ID Q46389;
TETNG PRELIMINARY; PRT; 711 AA.
AC Q46389;
DT 13-SEP-2005 (TrEMBLrel 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel 31, Last annotation sequence.
DE (Pragment).

CRETARY OF A SCAPIA SOURCE STANDARY (Vertebrate; Euteleostei; Neoteleostei; Ne

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RESULT 7
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Best Local
050301 RAT
Q50301;
Q50301;
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[2]
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L; CAAEO1014752; CAGO4893.1; -; Genomic_DNA.
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                                                                          TVEDPVDSAPPGQRKKEQWYAGINPSDGINSEV-LEAIRVTRHKNAM
                                                                                              EELKKQRKEQ--PAV-
                                                                                                               QEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAW
                                                                                                                                                                                                                                                                                                        READLREORGUROA-----TDHQELVEIPTRPL-----LTKLSLITAPRRERGRPSLY
                                                                                                                                                                                                                                                                                                                                              AVPTWASVQV-------VDDPGSLASV--ESPGTPKETPIEREIRLAQE
                                                                                                                                                                                                                                                                                                                                                                 FSSARRQFLQGGATKRDVPPHIYSAKPFLKSRVGGDADETGEGHVTWSDKGLAGEFTCAR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKEMKTYRLDAGDAD 132
                                                         GKIEKVRLAPP---
                                                                                                                                                    RWEYFRLR PLR FRAPD - EPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRRE
                                                                                                                                                                                                          PRIKIOSSYARALAS-SAPAPAPAPAPAPAPVPR-----PAPVYRPPSPPSPEKPEFSY
                                                                                                                                                                                                                              P----QPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLEFSA 440
                                                                                                                                                                                                                                                                                                                           AVMTILTEEEDGKGHFHPSFHLEESDSGLDEPSPAAPVNGQSNGSPTEDEL-----E
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                                                                                                                                                                                                                                                                                                                                                                                                                                           -EEVQELERERQELIKEQAVKRNPEIA------HRWWNPPQEVPLEEQ-LDAEQLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PDAH--PPLVVQGQRPTTL-------LSQEDTARRSNGHAQSEDLASSGAKFELRA
                                                                                                                                  -----RAPEVEP-----ASGPFRLRSKKQRTLSMIEEEIRAAQQRE
                                                                                                                                                                        FSKYSEAAELRSTASAS--
                                                                                                                                                                                          FGAFGKPSSL-STAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVV 499
                                                                                                                                                                                                                                                  SPVSSSPAGGRRPEVRVVSPDETSESQRSAPEETRPQ---APSAPPPQPVSPPQRSKNGG
                                                                                                                                                                                                                                                                    -----GRDIVQETQRE--EDHRREGLHVGRASTPDWVSE-----G
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                                                                                                                                                                                                                                                                                                                                                                                   -KAFNKPHLANG------HVVPIKPQV------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             711 AA;
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          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             77525 MW;
                                                         -----VSPSPSEGALSDAGSEDSTGSRPKNFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Score 209.5; DE; Pred. No. 0.015; 91; Mismatches 2
                                                                                             -TARPSSQSHVRTGPRQSTMCPADRMKSNSLPARLTLTAKTAP
          PRT;
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          870
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                                                         683
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                              TISSUE=Kidney;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                        Kinase.
                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE
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           391
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                                                                                                                                                                                                                                                                              870 AA;
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                                                                                                                                                                                                                                                                              95941 MW;
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RX MEDLINE=2238857; PubMed=12477932; DOI=10.1073/pnas.242603899;
RRA Klausner R.D., Collins F.S., Wapper L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wapper L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K.J., Sonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Schein J.E., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human rand mouse cDNA sequences.";

Proc. Matl. Acad. Sci. U. S.A. 99:16899-16903 (2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                U1-FEB-2005 (TrEMBLrel. 29, Last sequence update)
A kinase (PRKA) anchor protein 2 (Predicted).
Name=Akap2 predicted;
Rattus norvenies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases. EMBL; BC085790; AAH85790.1; -; mRNA. Ensembl; ENSRNOC00000011504; Rattus porvegicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurogna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GO; GO:0016301; F:kinase activity; IEA.
                                                                       REENKVRAVPTWASVQVVDDPGSLASVESPGTP-KETPIEREIRLAQEREADLREQRGLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AVRKSSTVATLQGTPDHGDPRTPGPPRSTPLEENV--------
VEDSSTQAAKEQKALCVSESQSAGAGTGNAATQGKEGPYSEP-
                                                                                                                                                                                                                             QFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKP-HLANGHVVP--IKPQVKGVV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          AVKKNPGIAA-----KWWNPPQKKTIEEQLDEEHLESHRKYKERKEKRAQQEQLQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -QVYRLGARDAHQGRPTWALRPEDGEDKEMKTYRLDAGDADP-RRLCDLERERWAVIQGQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GPEASGWGQDEPQTWPTDHRAQQGVQRQGVSYSVHAYTGQPSPRGLHSENREDEGW----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -----LGNSLQAPASPSSSTSSHCSSRDGEFTLTTL
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       436
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437 315

486 367

outstation -

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AKAP2 HUMAN STANDARD; PRT; 1103 AA.

19Y2D5; 09UG26;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
A-kinase anchor protein 2 (Protein kinase A anchoring protein (PRKA2) (AKAP-2).
                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM A).

Schuetze N., Reichel S., Ruecker N., Lechner A., Eulert "Homo sapiens AKAP-2 complete cDNA sequence.";

Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases [2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Name=AKAP2; Synonyms=KIAA0920;
Homo sapiens (Human).
                                                                                                         Nagase T., Ishikawa K.-I., Suyama M., Kikuno R., Hirosawa M., Miyajima N., Tanaka A., Kotani H., Nomura N., Ohara O.; "prediction of the coding sequences of unidentified human genes. XII The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro."; DNA Res. 6:63-70(1999).
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE
                                                                          NUCLEOTIDE SEQUENCE [LARGE SCALE
                                                                                                                                                                                                                       MEDLINE=99246063; PubMed=10231032;
                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID-9606;
                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia; Eutheria;
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                                                                                                                                                                                                                                                           [LARGE SCALE MRNA]
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EMBL; AB023137; BAA76764.2; ALT_INIT; mRNA.
EMBL; AL110268; CAB53707.1; -; mRNA.
Ensembl; ENSG00000157654; Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
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MIM; 604582; -.
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ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Name=B;
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       ESSGKPLSTKQEAS.
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EMBL; AL35
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THENS (1988)
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01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
A kinase (PRKA) anchor protein 2.
A kinase (PRKA) anchor protein 2.
Name-AKAP2; ORFNames-RP11-4700720.3-001;
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Submitted (MAY-2005)
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Q1-MAR-2004 (TrEMBLrel. 26, Created)
Q1-MAR-2004 (TREMBLrel. 29, Last sequence update)
Q1-FEB-2005 (TrEMBLrel. 29, Last annotation update)
Predicted protein (Hypothetical protein H4H7.100).
Name=NCU04757.1; Synonyms=H4H7.100;
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EMBL; AL353806; CAI10811.1; JOINED; Genomic_DNA.
Ensembl; ENSG00000157654; Homo sapiens.
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                                                                                                                                                                                                                                                             RGPPOPLPAVOPSGPINMEETRPEGSYFSKYSEAAELRSTASLLATOESDV------MV
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19.9%; Pred. No. 0.042;
rative 105; Mismatches 228;
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RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B., RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M., RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M., RA Qui D., Ianakiev P., Pedersen D., Nelson M., Washburne M., Selitrennikoff C.P., Kinsey J.A., Braun E.L., Zelter A., Schulte U., RA Kothe G.O., Jedd G., Mewes W., Staben C., Marcotte E., Greenberg D., RA Kornel M., Kamyrseelis M., Mauceli E., Blelke C., Rudd S., Frishman D., RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S., Cogoni C., Macino G., Catcheside D., Li W., Pratt R.J., Osmani S.A., BeSouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R., Yarden O., Plamann M., Seller S., Dunlap J., Radford A., Aramayo R., RA Natvig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M., RA Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.; "The Genome Sequence of the Filamentous Fungus Neurospora crassa.", U. 121
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EMBL; AABX01000328; EAA31054.1; -; Genomic_DNA.

EMBL; BX908811; CAF06122.1; -; Genomic_DNA.

Hypothetical protein.

SEQUENCE 1095 AA; 118854 MW. FETTGBBEGGGTATA
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Schulte U., Aign V., Hoheisel J., Brandt P., F
Schulte U., Aign V., Hoheisel J., Brandt P., F
Nyakatura G., Newes H.W., Mannhaupt G.;
Submitted (JAN-2004) to the EMBL/GenBank/DDBJ
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Sordariomycetidae; Sordariales; Sordariaceae;
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IPPDAYOPYLSPGTPQLEFSA----FGAFGKPS-----SLSTAEAKAATSPKATMSPRHLS
                                                                                                                                                                                                                                                                        RGLRQATDHQELVEIPTRPLLTXLSLITA-----PRRERGRPSLYVQRDIVQETQREED
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                                                                                             EKKEKVPLSDARKGRA------RGPQ---RRAPAA-----AKAAAAAAAAP-----
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Pred. No. 0.052;
96; Mismatches 28
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DR 10-CHUS E
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RA USAMMITTE
RA USAMMITTE
RA WAN N-A-MATTE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Loftus B., Amedeo P.,
Van Aken S., Fraser C.
Submitted (MAY-2004) t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes; Tremellomycetidae; Tremellales; Tremellaceae; Filobasidiella.
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                                                                                                                                                                                                                                                                                                                                                                    Science 307:1321-
                                                                                                                                                                                                                                                                                                                                                                                            Cryptococcus neoformans."
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                    j iPR011992; EF-Hand_type.
j iPR0012048; EF hand_Ca_bd.
j iPR0012048; EF hand_Ca_bd.
j iPR00131; GDS_CDC24.
j iPR000131; GDS_CDC24.
j iPR000119; Neu_cyt_fact_2.
j iPR000142; SH3.
o; iPR0001124; WH2_actin_bd.
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Best Local Similarity 21.2%; Pred. No. 0.19;
Matches 136; Conservative 63; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF02205; WHZ; 1.

PRINTS; PR00429; P67PHOX.

PRINTS; PR00452; SH3DOMAIN.

PRODOm; PD000066; SH3; 2.

SMART; SM00327; EH; 1.

SMART; SM00326; SH3; 2.

SMART; SM00326; SH3; 2.

SMART; SM00326; SH3; 2.

SMART; SM00326; WHZ; 1.

PROSITE; PS00741; DH 2; 1.

PROSITE; PS50010; DH 2; 1.

SEQUENCE 1978 AA; 217438 M
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PF00018; SH3_1; 2.
PF02205; WH2; 1.
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    (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                                                                              PRELIMINARY;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (MAY-2005) to the EMBL/GenBank/DDBJ da EMBL; AL353598; CAI40018.1; -; Genomic_DNA. EMBL; AL158823; CAI39562.1; -; Genomic_DNA. EMBL; AL158823; CAI40018.1; JOINED; Genomic_DNA. EMBL; AL158823; CAI39562.1; JOINED; Genomic_DNA. EMBL; AL353598; CAI39562.1; JOINED; Genomic_DNA. EMBL; AL353598; CAI39562.1; JOINED; Genomic_DNA. EMBL; AL353598; CAI39562.1; JOINED; Genomic_DNA.
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Eukaryota; Metazoa; (
Mammalia; Eutheria; I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kimberley A.
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                                                                                                GAPALRLOKSOSSDLLERERESVLRREQEVAEER ---
                                                                                                                                                                                     RAPDEP-----QQAQVPHVWGWEVA 531
                                                                                                                                                                                                                                                                            ESSGKPLSTKQEAS------KPPR-GCP-QANRGVVRWEYFRLRP-----LRF
                                                                                                                                                                                                                                                                                                                       GVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTSRDGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                   QPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLE-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PGALETPSAAGSQGNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PGSLASVESPGTPKETPIEREIRLAQEREADLRE--QRGLRQATDHQELVEIPTRPLLTK 333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FSIKPFYRPLGSVNSDKPLTNP------RPPSVGGPPEDSGASAAKGQKS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----GASQAPKAFNKPHLANGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQQEQLLLQKQLQQQQQQPPSQLCT
                                                    GPFKLRSRKQRTLSMIEEEIRAAQEREEELKRQRQVLQSTQSPRTKNA--PSLPSRTCYK
                                                                                                                                         RGPPQPLPAVQPSGPINMEETRPEGSYFSKYSEAAELRSTASLLATQESDV-----
                                                                                                                                                                                                                                   EQQG-PEATVEEAEAAAFGSEKPQSMFEPPQVSSPVQEKRDVLP----KILPAEDRALRE
                                                                                                                                                                                                                                                                                                                                                                                                            ---VLETLSNDFSMDNISDSGASN----ETTNALQENSLADFSLPQTPQTDNPSEGRGE
         -----FSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVE
                                                                                                                                                                                                                                                                                                                                                              ----FSAFGAFGKPSSLSTA-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chordata; Craniata; Vertebrata; Euteleostomi; Euarchontoglires; Primates; Catarrhini; Hominidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----ASQGKEGPYSEPSKRG---
                                                                                                                                                                                                                                                                                                                                                                     -----EAKAATSPKA-TMSPRHLS 471
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949;

Gaps

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| . Qy 539 OKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGS | Db 971 LAQALFGNIMGGSSPSTSRPGSAAPQAPKEPPKALANVGGGNPEQGRGALLSAIQGGARL | 1 | i (n            | QY 421 PPDAYQPYLSPGTPQLEFSAFGAFGK-PSSLSTAEAKAATSPKATMSPR | Oy 367 REGLHVGRASTPDWVSEGPQPGLRRAI                 | QY 307 LREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQREEDHR :   :   :   :   :   :   :   :   :   : | Qy 262 RAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLAQEREAD | Qy 202 SLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLANGHVVPIKPQVKGVVREENKV | Qy 142 ERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTPLEENVVDREQIDFLAARQQFL                  | Query Match 5.4%; Score 194; DB Best Local Similarity 21.6%; Pred. No. 0.29 Matches 128; Conservative 55; Mismatches | EMBL<br>HYPO<br>SEQU | "Cryptococcus neoformans serotype D Submitted (JUL-2004) to the EMBL/Ger -I- CAUTION: The sequence shown here EMBL/GenBank/DDBJ whole genome of the control | •                         | OS Cryptococcus neoformans var. neoformans B-3501 OS Cryptococcus neoformans var. neoformans B-3501 OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes OC Tremellomycetidae; Tremellales; Tremellaceae; OX NCBI_TaxID=283643; PN [1] | 13-SEP-2005 (TrEMBLrel. 31, Created) 13-SEP-2005 (TrEMBLrel. 31, Last sequence 13-SEP-2005 (TrEMBLrel. 31, Last annotation Hypotherical protein. | RESULT 13<br>Q55PV1 CRYNE<br>ID Q55PV1 CRYNE PRELIMINARY; PRT; 1978 AA<br>AC Q55PV1, | 900 | Oy 622 DPVDSAPPGORKKEOWYAGINPSDGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD |
|---|---|---|-----------------|--|--|---|--|---|--|--|----------------------|---|---------------------------|---|--|--|-----|---|
| SPTPDENSDQNSRSSSQASGTTGS 598  | RAPUSEQQAQVEHVWGWEVNGAFALKU 336                                     |   | EVFRLRPLRF- 511 | TPQLEFSAFGAFGK-PSSLSTAEAKAATSPKATMSPR 468                | ASTPDWVSEGPOPGLRRALSSDSILSPAPDARAADPAPEVRKVNRI 420 | ERGRPSLYVORDIVQETQREEDHR 366<br>  : : :  :<br>  :   :   :   :   :   :   :                                 | SVESPGTPKETPIEREIRLAQEREAD 306                       | HLANGHVVPIKPQVKGVVREENKV 261  | PRSTPLEENVVDREQIDFLAARQQFL 201 : : :     : :   : :   : :   : :   : :     : :     : : | 2; Length 1978;<br>214; Indels 196; Gaps 22;   | DNA.                 | sequencing.";  Bank/DDBJ databases.  1s derived from an  shotgun (WGS) entry which is   | Miranda M., Fukushima M., | 501A.<br>tes; Heterobasidiomycetes;<br>e; Filobasidiella.   | update)  |  |     | RHKNAMAERWESRIYASEEDD 679   |

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RESULT 14
Q96FF7_HUMAN
Q96FF7_HUMAN PRELIMINARY;
AC Q96FF7;
AC Q96FF7;
DT 01-DEC-2001 (TrEMBLrel. 19,
DT 01-MAR-2004 (TrEMBLrel. 26,
DT 01-MAR-2004 (TrEMBLrel. 26,
DE LOC113230 protein (Fragment)
GN Name=LOC113230;
GS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordat;
OC Eukaryota; Metazoa; Chordat;
OC Mammalia; Eutheria; Euarchoi
OC NCB1 TaxID=9606;
RN MICLEOTIDE SEQUENCE.
RA NUCLEOTIDE SEQUENCE.
RA Strausberg R.L., Feingold E
RA Strausberg R.L., Feingold E
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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Alechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Holkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh P.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Stenstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton B., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Rodriguez A.C., Grimwood J., Schwutz J., Wyers R.M.
RA Rodriguez A.C., Grimwood J., Schmutz J., Wyers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
T "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA servences ""
                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 104; Conserv
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Name=LOC113230;
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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01-DEC-2001 (TrEMBLrel. 19,
01-MAR-2004 (TrEMBLrel. 26,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : Eun1=EUSSI.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1031 KKAQTVD-----KSGPPDIGRVIGDAAPPSHIRETPRE------
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353 RDIVQETQREEDHRREGIHVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAP 412
                                                                        107
                                                                                                                                                                                                                                                                                             189 EQIDFLAARQQFL--SLEQANKGAPHSSPARG----TPAGTTPGASQAPKAFNKPHLANG 242
                                                                                             295 REIRLAGEREADLREGRGLRQATDHQELVEIPTRPLLTKLSLITA-PRR-ERGRPSLYVQ 352
                                                                                                                                                                                                        243 HVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPK------ETPIE
                                                                                                                                                              64 HPPP-----GPKTSSSRSGSEAPHLRFPPCPEAPQRPPEERFMETPIE
                                                                                                                                                                                                                                                   9 KDVBILEQESEVLEPSVEQ-DAESPGLSTÄAGFESPEPGRDDPGPSEÄQRÄ----EVQGQ 63
                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                            5.4%; Score 193:5; DB 24.2%; Pred. No. 0.038;
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Last annotation update)
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| Ş   | 뭣      | 8   | B 8   | Ma e  | SORRE                           | RT R                               | R R R   |   |   | ጅ ጅ ጽ  | 7 7 Z  | R 22  | 2 7 7  | 2888               | 888                         | 2222  | RESUL:<br>Q5KKE<br>ID<br>AC                               | 문                  | Ś                  | ß 8  | 皮                              | Ş   | 문 :                                      | ફ   | 밁                 |
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| 169 DPRTPGPPRSTPLEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPAR 217 | SRSGST | - Š | 52 PTDHRAQQGVQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVVRLGARDAHQGRPTW 109 | Query Match 5.4%; Score 192; DB 2; Length 1558;<br>Best Local Similarity 21.2%; Pred. No. 0.28;<br>Matches 177; Conservative 81; Mismatches 290; Indels 288; Gaps 36; | ce 307:1<br>AE01734<br>ete prot | ser C.M., Hyman<br>e genome of the | E., Shvartsbeyn A., Shin H., Shumway M., Spec<br>Tenney A., Utterback T.R., Wickes B.L., Wort<br>Kronstad J.W., Lodge J.K., Heitman J., Davis | Jones S.J.M., Koo H.I<br>er K.B., Maiti R., Ma<br>l T.G., Pertea M., Ri | randa M., Anderson I.J., Fraser J.A., Allen J.E.<br>E M.R., Chiu R., Doering T.L., Donlin M.J.<br>D.S., Grinberg V., Fu J., Fukushima M., Haas B. | 466; DOI=10.1126/science.1103773; Fung E., Roncaglia P., Rowley D., Amedeo P., Bruno | NUCLEOTIDE SEQUENCE (LARGE SCALE GENOMIC DNA). | en S., Fraser C.;<br>ted (MAY-2004) to the EMBL/GenBank/DDBJ databases. | SOTIDE SEQUENCE.<br>IN-JEC21;<br>18 B., Amedeo P., Roncaglia P., Vamathevan J. | aceae; Filobasidie | mans var. neoformans JEC21. | 10-MAY-2005 (TrEMBLrel. 30, Created) 10-MAY-2005 (TrEMBLrel. 30, Last sequence update) 10-MAY-2005 (TrEMBLrel. 30, Last annotation update) Honorherical protein | T 15<br>6 CRYNE<br>95KKE6 CRYNE PRELIMINARY; E<br>95KKE6; | 287 -SLTASRGDG 295 | 585 NSRSSSQASG 594 | 526 WGWEVAGAPALRLQKSQSSDLLERERESVLRREQGVAERRANALFPEVF-SPTPDENSDQ 584 | 225 PEPGGRPRSAVQGGCRVLGSAPPPTP | 471 SESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHV 525 | 88 RARSPPQPLGELKRFFEAAAGSGSSAGAGDGAGPQRL | 13 EVRKVNRIPPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPK | 167 RDIEREAHRQAAL |

Search completed: March 3, 2006, 13:26:04 Job time: 265.327 secs

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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                168
166.5
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Gapop 10.0 , Gapext 0.5
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3583
1 MDRVTRYPILGIPQAHRGTG......HKNAMAERWESRIYASEEDD 679
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1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*

2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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                                                  US-09-050-516-42
US-10-278-547-42
US-09-050-516-43
US-10-278-547-47
US-10-278-547-43
US-09-050-516-43
US-09-050-516-43
US-09-050-516-45
US-09-252-991A-29419
US-09-252-991A-29419
US-09-950-516-10237
US-09-949-016-10237
US-09-949-016-10237
US-09-949-016-10237
US-09-949-016-1735
US-09-949-016-1737
US-08-681-219A-30
US-08-681-219A-30
US-08-681-219A-30
US-08-681-219A-30
US-08-681-219A-37
US-08-489-548A-7
US-08-449-731-7
US-08-449-731-7
US-08-449-731-7
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US-08-452-654-2
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42, Appl
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45, Appl
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| 45                | 44                   | 43                   | <u>4</u> 2           | 41                | 40               | ω<br>9               | ა<br>8              | 37                 | 36                   | <u>3</u> 5      | 34<br>4          | ω<br>u            | 32                 | <b>3</b> 1      | 30              | 29              | 28               |
|-------------------|----------------------|----------------------|----------------------|-------------------|------------------|----------------------|---------------------|--------------------|----------------------|-----------------|------------------|-------------------|--------------------|-----------------|-----------------|-----------------|------------------|
| 158               | 158                  | 161                  | 161                  | 162               | 162              | 163                  | 164.5               | 164.5              | 165.5                | 166             | 166              | 166               | 166                | 166             | 166             | 166             | 166              |
| 4.4               | 4.4                  | 5                    | 5                    | 5                 | 5                | 4.5                  | 4.6                 | 4.6                | 4.6                  | 4.6             | 4.6              | 4.6               | 4.6                | 4.6             | 4.6             | 4.6             | 4.6              |
| 1326              | 588                  | 791                  | 507                  | 904               | 885              | 1197                 | 1344                | 1341               | 666                  | 2973            | 2973             | 2973              | 2843               | 2843            | 2843            | 2843            | 2843             |
| N                 | N                    | N                    | ผ                    | N                 | N                | N                    | N                   | Ŋ                  | N                    | N               | ۲                | μ                 | N                  | N               | N               | N               | r                |
| US-09-688-1888-15 | US-09-252-991A-30690 | US-09-252-991A-31894 | US-09-252-991A-31473 | US-09-976-594-615 | US-09-914-259-10 | US-09-252-991A-30833 | US-09-949-016-10925 | US-09-949-016-6890 | US-09-252-991A-17054 | US-09-136-605-7 | US-09-003-687A-7 | US-08-821-355A-7  | US-09-538-092-1007 | US-08-449-731-2 | US-08-450-582-7 | US-08-450-582-2 | US-08-370-235A-2 |
| Sequence 15, App  | Sequence 30690,      |                      | O                    | Œ                 | ١-               |                      | O                   | 6890,              | 17054,               |                 |                  | Sequence /, Appli | Sequence 1007, A   |                 |                 | ı N             | 'n               |
| Ĭ                 | > >                  | • >                  | •                    | Ö                 | -                | ٠,>                  |                     | Ą                  |                      | -               |                  | ٠,                | · 'Ö               | i 1-            | ۰. ۲            | ٠. ٣            | . <b>µ</b> .     |

## ALIGNMENTS

| ; INFORMATION FOR SEQ ID NO: 42: | Σ. | . TELEPHONE: 847/935-1729 | ä | 띪 | 井 | ; ATTORNEY/AGENT INFORMATION: | ; FILING DATE: 31-MAR-1997 | 3 | *:<br> | ; CLASSIFICATION: | ; FILING DATE: | , APPLICATION NUMBER: US/09/050,516 | E | FastSEQ | ß | MEDIUM TYPE: Diskette | = | 2 | ĸ | •• | ₽ | ; STREET: 100 Abbott Park Road | , ADDRESSEE: Abbott Laboratories | ; CORRESPONDENCE ADDRESS: | 유 | ; TITLE OF INVENTION: TRACT | OF INVENTION: FOR DETECTING      | NVENTION: REAGENTS AND N | STROUPE, STEPHEN I | RUSSELL, JOHN | ROBERTS-RAP | KRATOCHVIL, JOI | KIASS MICHAEL | APPLICANT: HAYDEN, MAKE | GRANADO | GORDON, JULIAN | : FRIBUMAL | COLPITIS, TRACES | : COHEN, MAURICE | •• | DRMATION: | ; Patent No. 6627414 | ; Sequence 42, Application US/09050516 | US-09-050-516-42 |  |
|----------------------------------|----|---------------------------|---|---|---|-------------------------------|----------------------------|---|--------|-------------------|----------------|-------------------------------------|---|---------|---|-----------------------|---|---|---|----|---|--------------------------------|----------------------------------|---------------------------|---|-----------------------------|----------------------------------|--------------------------|--------------------|---------------|-------------|-----------------|---------------|-------------------------|---------|----------------|------------|------------------|------------------|----|-----------|----------------------|--|------------------|--|
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RESULT 2
US-10-278-547-42
; Sequence 42, Application US/10278547
; Patent No. 6660834
; GENERAL INFORMATION:
GOHEN, MAURICE COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
HAYDEN, MARK
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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 662741
US-09-050-516-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 679;
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
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llarity 100.0%;
Conservative (
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Pred. No. 5.6e-294;
); Mismatches 0;
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MOLECULE TYPE: No. 6660834e;
SEQUENCE DESCRIPTION: SEQ ID
US-10-278-547-42
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Best Local Similarity
Matches 679; Conserv
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COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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                                     301
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                                                                                                                                                                                   LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
                                                                                                                                                                                                                                                  MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
                                                                                                                                                                                                                                                                                                                  VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE
                                                     QEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ
                                                                                                 NGHVVPIKPQVKGVVRBENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                            NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
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                                     QEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ
                                                                                                                                                                   LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
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STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 679 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 3583; DB 2; llarity 100.0%; Pred. No. 5.6e-294; Conservative 0; Mismatches 0;
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Indels

0

Gaps

0

240

240

180 180 120 120 8 60

360

300 300

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REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEFAX: 40Dknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: FactSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
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Ö
Length
     679;
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421

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: COHEN, MAU
APPLICANT: COLPITYS,
APPLICANT: FRIEDMAN,
APPLICANT: GRANADOS,
APPLICANT: HAYDEN,
APPLICANT: HAYDEN,
APPLICANT: HASS, MIC
APPLICANT: KLASS, MIC
APPLICANT: KRATOCHVIL
APPLICANT: ROBERTS-RA
APPLICANT: RUSSELL, J
APPLICANT: STROUPE, S
TITLE OF INVENTION: R
TITLE OF INVENTION: T
INTENTION: T
INTENTION: T
INTENTION: T
INTENTION: T
                                                                                                                                                                                        OPERATING SYSTEM: DOS SOFTWARE: PastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
                                                                                                                                                                                                                                                                                      ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7, Application US/09050516 6627414
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
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STROUPE, STEPHEN D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LISA
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US-10-278-547-47
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GENERAL INFORMATION:
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Best Local Similarity
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SEQUENCE CHARACTERISTICS:
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LA: 215 amino acida
LYPE: amino acid
STRANDENNESS: si-
TOPOLOGY: 1'
OLECULP
                    COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/10/278,547
FILLING DATE: 23-Oct-2002
CLASSIFICATION DATA:
APPLICATION UMBER: US/09/050,516
FILLING DATE: CURKNOWN>
PRIOR APPLICATION NUMBER: US/09/050,516
FILLING DATE: CURKNOWN>
APPLICATION NUMBER: 08/828,855
FILLING DATE: 31-MAR-1997
FILLING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   645
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            215;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NSRSSQASGITGSYSVSESPFFFSPIHLHSNVAWTVEDPVDSAFPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                                                                        CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/10278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF TI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                      USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                      49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1132; DB 2; pred. No. 1.2e-87;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THE GASTROINTESTINAL
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180 644 120

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RESULT 3 US-09-050-516-47

Sequence 47, Patent No. 6

PPLICANT:

USA

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RESULT 5
US-09-050-516-43
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Best Local Similarity 100.0%; Pred. No. 1.7
Matches 215; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: BILLIN
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INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                             APPLICANT: KRATOCHVI
APPLICANT: ROBERTS-R
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
COMPUTER: IBM Compatible OPERATING SYSTEM: DOS SOFTWARE: Fast-SEQ for Windows CURRENT APPLICATION DATA:
                                                                       ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                  CITY: Abbott Park
                                                                                                                                                                                      STREET:
                                                                                                                               COUNTRY:
                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION: TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  525 VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   43,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 215 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Application US/09050516
                                                                                                                                                                                      E: Abbott Laboratories
100 Abbott Park Road
                                                                                                                                                                                                                                                             KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COLPITS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                     GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BILLING-MEDEL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                             S, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                    MARK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 1132; DB 2; pred. No. 1.2e-87;
                     Version
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US-10-278-547-43
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US-09-050-516-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 43, Applicati
Patent No. 6660834
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8
FILING DATE: 31-MAR-1997
         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEM: DOS
SOFTWARE: FASTSEM: DOS
CURRENT APPLICATION UNMEER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION LOMBER: US/09/050,516
APPLICATION NUMBER: US/09/050,516
FILING DATE: CUNKNOWN-
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                 GRANALUS, _
HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE
TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
mes 36; Conserv
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CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH:
                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : 36 amino acids
                                                                                                                                                                                                                                                                                      COUNTRY: USA
                                                                                                                                                                                                                                                                                                                        CITY: Abbott Park
                                                                                                                                                                                                                                                                       ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COLPITTS, TRAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5.3%; Score 189; DB 2; 100.0%; Pred. No. 4.1e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US/09/050,516
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    43:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   THE GASTROINTESTINAL
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NAME: Becker,

35,441

6065.US.P1

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; SEQUENCE DESCRIPTION: SEQ ID NO: 43:
US-10-278-547-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-050-516-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 45,
Patent No. 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                      COMPUTER: IBM COMPACIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT
APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PPLICANT
                                                                                                                                                                                                                                                                                                                    NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                  COUNTRY: USA
ZIP: 60064-3500
                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 35,4:
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION IMFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Application US/09050516
                                                                                                                                                                                                                                                                                                                                                   B: Abbott Laboratories
100 Abbott Park Road
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COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GRANADOS.
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SS, MICHAEL R.
POCHVIL, JON D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5.3%; Score 189; DB 2; 100.0%; Pred. No. 4.1e-09;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                    REAGENTS
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                                                                                                    08/828,855
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GENERAL INFORMATION:
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Best Local Similarity
Matches 35; Conserv
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acids
TYPE: amino acid
STRANDEDNESS: sin-
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
                                                      CURRENT APPLICATION NUMBER: US/10/278,547

PILLING DATE: 23-OCC-2002

PILLING DATE: 23-OCC-2002

PILLING DATE: 23-OCC-2002

PILLING DATE: 23-OCC-2002

PRIOR APPLICATION NUMBER: US/09/050,516

PILLING DATE: CUNKnown:

APPLICATION NUMBER: 08/828,855

PILLING DATE: 31-MAR-1997

APPLICATION NUMBER: 08/828,855

PILLING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 35,441

REGISTRATION INFORMATION:

TELEPHONE: 847/935-1729

TELEPHONE: 847/935-1729

TELEPHONE: 847/938-2623
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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                                                                                                                                                                                                                                                                                                                                                                                                        OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
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COHEN, MAURICE
COLPITTS, TRACEY L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FOR DETECTING DISEASES OF THE GASTROINTESTINAL
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ENGTH: 35 amino acids

-HRDPLRSLVEP-GGGE

884 568

TREATED WITH STEROIDS

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CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 29419
LENGTH: 1008
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MOLECULE TYPE: NO. 6660834e;
SEQUENCE DESCRIPTION: SEQ ID
US-10-278-547-45
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US-09-252-991A-29419
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Best Local Similarity
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Best Local :
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE:
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ORGANISM: Pseudomonas aeruginosa
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431
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                                                      HQERHHQGRRRRPRAGGTASPVPDRHAAGEPPRRTLVAVPFPDARLARRRPP-----VR
                                                                                                          VSEGPQPGLRRALSSDSILSPAPDARAAD-----
                                                                                                                                                                                                                                                                             PARTRORRRAGRRHGAGODLAVAGPRAPGKAGRAARHAGAGGDAHOPDPOLAGRGRALRP 598
                                                                                                                                                                                                                                                                                                                                                                                       AGLGRRRQPARLRPPPT-----QFPG-----SSGDPAARPARRTAALPARRPELDAD
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  PGTPQLEFSAFGAFGKPSSLSTAEAKA-----
                                                                                                                                                                RSARAGPARRRPAPRLRPHR----RARPGADHLCPAATRRR--RAGQAAVPPADPRRGAE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAAYRTASGARAGIPRDPAPPRLQA--GDPAQRRARGERRRDVRTARRQRLAA--LHAGR
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107196.136
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  -ATSPKATMSP 467
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US-09-976-594-726
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Patent No. 6673549
GENERAL INFORMATION:
APPLICANT: Furness, Michael
APPLICANT: Buchbinder, Jenny
TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES ?
FILE REFERENCE: PA-0041 US
CURRENT APPLICATION NUMBER: US/09/976,594
CURRENT FILING DATE: 2001-10-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 1143
SOFTWARE: PERL Program
SEQ ID NO 726
LENGTH: 2468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/240,409 PRIOR FILING DATE: 2000-10-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Homo sapiens FEATURE:
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  DHQELV---EIPTRPLLTKL---
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                                                      SVTGSAGHTPYYQSPTDEKSSHLPTEVIEKPPAVPVSFEF----SDAKDENERASVS
                                                                                                                                                                   EKTPLGERSVNFSLTPNEIKVSAEAEVAPVSPEVTQEVVEEH--CASPEDKTLEVVSPSQ 1325
                                                                                                                                                                                                                                                                             MEEDKFSRS----ALRDAYCSEVKASTTLDIKDSISAVSSEKVSPSKSPSLSPSPPSPL
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                                                                                                            -DDPGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQAT 317
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Pred. No. 5e-05;
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US-09-538-092-1135
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SEQ ID NO 1135
LENGTH: 2468
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Best Local
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TITLE OF INVENTION: Protein-Protein Complexes and Method of Using
FILE REFERENCE: 15966-542
CURRENT APPLICATION NUMBER: US/09/538,092
CURRENT FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/127,352
PRIOR FILING DATE: 1999-04-01
PRIOR APPLICATION NUMBER: 60/178,965
                                                                                                                                                                                                                                                                                            FEATURE:

NAME/KEY: misc feature
LOCATION: (0)...(0)

OTHER INFORMATION: Polypeptide Accession Number P46821

-09-538-092-1135
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NUMBER OF SEQ ID NOS: 1387
SOFTWARE: CuraPatSegFormatter Version 0.9
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                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
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Similarity 20.4%;
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ERERW-----AVIQGQAVRKSSTVATLQGTPD------HGDPRTPGPPRSTP 180
                                                                                    --- ENREDEGWQVYRLGARDAHQG--RPTWALRPEDGEDKEMKTYRLDAGDADPRRLCDL
                                                                                                                             YVMAVVDKAAEAGGAEEQYGFLTTPTKQLGAQSPGREPASSIHDET---LPGGSESEATA 1100
                                                                                                                                                                                                               Conservative 109;
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                                                                                                                                                                                                               Score 173; DB 2; Length 2468;
Pred. No. 5e-05;
D9; Mismatches 289; Indels 27
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  1748 DTLSDVAPP---RDMSLYASLT-SEKVQSLEGEKLSPKSDISPLTPRESSPLYSPTFSD 1802
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                                                                                                                574 -FSPTPDENSDQNSR-----SSSQASGITGSYSVSE---SPFFSPIHLHSNVAWTVED 622
                                                                                                                                                                                                                                                                         482
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTTPGASQAPKAFNKPH----LANGHVVPIKPQVKGVVREENKVRAVPTWASVQVV----
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                                                                            DYSPSDMQDSSLSHKIPPMEEPSYTQDNDLSELISVSQVEASPSTSSAHTPSQIASPLQE 1747
                                                                                                                                                      SRTPVQDHRSEQSSMSIEFGQES---PEQSLAMDFSRQSPDHPTVGAGVLHITENGPTEV 168
                                                                                                                                                                                                                                  VVQTPTTFQETEMSPSKEECP-
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                                        PV--DSAPPGORKKEOWYAGINPSDGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                             DEGVAEDTYSHMEGVASVSTASVATSSFPEPTTDDVSP-SLHAEVGSPHSTEVDDSLSVS
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                                                                                                                                                                                            AGAPALRLOKSOSSDLLERERESVLRREQEVAEE--RRNALFPEV-----
                                                                                                                                                                                                                                                                           QEASKPP--RGCPQANRGVVRWEYFRLRPLRFRAPD-EPQQAQVPHVWGWEV 530
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                                                                                                                                                                                                                                                                                                                                                     AKAATS--PKAT---MSPRHLSESSGKPLSTK-----
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                                                                                                                                                                                                                                      -RPMSISPPDFSPKTAK-----
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; Sequence 10237, Application US/09949016
patent No. 6812339
; GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR PILING DATE: 2000-10-03
PRIOR PILING DATE: 2000-09-08
PRIOR PILING DATE: 2000-09-08
PRIOR PILING DATE: 2000-09-08
PRIOR PILING DATE: 2000-09-08
PRIOR PILING DATE: 2000-19-08
PRIOR PILING DATE: 2000-10-23
PRIOR PILING DATE: 2000-10-20
PRIOR PILING DATE: 2000-10
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Query Match

4.8%;

Score 173;

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2:

Length 2522;

US-09-949-016-10237

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US-09-050-516-46
                                                                                                                                                                    Sequence 46, Application US/09050516 Patent No. 6627414 GENERAL INFORMATION:
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APPLICANT:
APPLICANT:
APPLICANT:
                   APPLICANT:
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APPLICANT
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                                                                                                                                                                                                                                                                                                                                                            PV--DSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
                                                                                                                                                                                                                                                                                                                                                                                                          DYŚPSDMQDŚSLSHKIPPMEEPŚYTQDNDLSELIŚVŚQVEAŚPSTŚSAHTPŚQIASPLQE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SRTPVQDHRSEQSSMSIEFGQES---PEQSLAMDFSRQSPDHPTVGAGVLHITENGPTEV 174:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VVQTPTTFQETEMSPSKEECP-------RPMSISPPDFSPKTAK-----
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                                                         BILLING-MEDEL, PATRICIA COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
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                   GRANADOS, EDWARD N. HAYDEN, MARK
  HODGES,
  STEVEN C.
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Best Local Similarity
Watches 32; Conserve
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US-10-278-547-46
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                                                                                                                                                                                                                                                                                             Sequence 46, Application US/10278547
Patent No. 6660834
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFFWARE: FASTSEQ for Windows Version 2.
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
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                                                                TITLE
                                                                                                                                                                                                                                                                            APPLICANT:
  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             621 EDPVDSAPPGQRKKEQWYAGINPSDGINSEVLE 653
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100 Abbott Park Road
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STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF TI
VENTION: TRACT
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                                                                  INVENTION:
                                                                                                                                                                                                                                                          BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                        COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                     HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
VENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF TI
                                                                                                                                                  HAYDEN, MARK
                                                                                                                                                                          GRANADOS,
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                          TRACT
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Pred. No. 1.2e-07;
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CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park

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NUMBER OF SEQ ID NOS: 34

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 30

LENGTH: 2843

TYPE: PRT
ORGANISM: human
US-10-092-138A-30
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; SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-10-278-547-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JS-10-092-138A-30
                                                         Query Match 4.7%; Score 168; DB 2; Length 2843; Best Local Similarity 21.1%; Pred. No. 0.00016; Matches 138; Conservative 82; Mismatches 272; Indels 16:
                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Sato, Taka-Aki
TITLE OF INVENTION: METHOD OF PREPARING A PROTEIN ARRAY BASED ON
TITLE OF INVENTION: BIOCHEMICAL PROTEIN-PROTEIN INTERACTION
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 30, Application US/10092138A Patent No. 6743630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                          FILE REFERENCE: 65923/JPW/PT
CURRENT APPLICATION NUMBER: US/10/092,138A
CURRENT FILING DATE: 2002-03-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      621 EDPVDSAPPGQRKKEQWYAGINPSDGINSEVLE 653
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1 EDSVDSAPPGORKKEOWYAGINPSDGINSEVLE 33
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
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nilarity 97.0%;
Conservative (
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                                                                  Indels 162; Gaps
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Search completed: March 3, 2006, 13:38:51 Job time: 93.2279 secs Colden Maiora agoda care

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Maximum DB
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                 205
199.5
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| Cgm2 6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*
| Cgm2 6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*
| Cgm2 6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
| Cgm2 6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
| Cgm2 6/ptodata/1/pubpaa/US11A_PUBCOMB.pep:*
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    GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
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US-10-278-547-42
US-10-646-873-42
US-09-050-516-47
US-10-646-873-47
US-10-106-638-4761
US-10-029-386-33676
US-10-029-386-33676
US-10-019-192-1320
US-10-408-765A-2018
US-10-719-93-748
US-10-719-93-748
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Sequence 42, Appl
Sequence 42, Appl
Sequence 47, Appl
Sequence 47, Appl
Sequence 47, Appl
Sequence 47, Appl
Sequence 4761, Appl
Sequence 33676, A
Sequence 1320, Ap
Sequence 2018, Ap
Sequence 7148, App
Sequence 748, App
Sequence 748, App
Sequence 747, App
Sequence 691, Ap
Sequence 691, Ap
Sequence 742, App
Sequence 742, App
Sequence 743, App
Sequence 741, App
Sequence 2942, Ap
Sequence 5845, Ap
Sequence 5845, Ap
Sequence 43, Appl
Sequence 2326, Ap
Sequence 166, App
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| 177 4.9 3.62 4 US-10-30-12-161<br>176.5 4.9 1321 5 US-10-840-512-161<br>175 4.9 35 3 US-09-050-515-117<br>175 4.9 35 4 US-10-278-547-45<br>175 4.9 35 4 US-10-646-873-45<br>177 4.9 35 4 US-10-646-873-45<br>178 4.9 432 4 US-10-755-899-615<br>179 4.8 2468 5 US-10-755-899-615<br>173 4.8 2468 5 US-10-489-740-216<br>173 4.8 2519 5 US-10-489-740-216<br>171 4.8 33 4 US-10-278-547-46<br>171 4.8 33 4 US-10-278-547-46<br>171 4.8 33 4 US-10-278-547-46<br>171 4.8 33 4 US-10-278-547-46<br>171 4.8 2367 5 US-10-485-068-6<br>169 4.7 275-4 US-10-488-765A-2462<br>168 4.7 275-4 US-10-408-765A-2462<br>168 4.7 275-4 US-10-408-765A-2462<br>168 4.7 2843 2 US-08-681-219-32   | 45               | 44                   | 43                 | 42                  | 41               | 40               | 39               | . 38             | 37                  | 36                | 35                | 34                   | 33               | 32               | 31               | 30                | 29                | 28              |
|--|------------------|----------------------|--------------------|---------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|----------------------|------------------|------------------|------------------|-------------------|-------------------|-----------------|
| 3262 5 US<br>3262 5 US<br>3363 15 US<br>35 4 US<br>4322 4 US<br>2468 5 US<br>2468 5 US<br>2468 5 US<br>2519 5 US<br>231 4 US<br>231 4 US<br>231 4 US<br>231 4 US<br>231 5 US<br>231 4 US<br>231 5 US<br>231 6 US<br>231 6 US<br>231 6 US<br>231 7 US<br>231 8 US<br>231 9 US | 168              |                      | •                  |                     |                  |                  |                  |                  |                     |                   |                   |                      |                  |                  |                  | ų                 |                   |                 |
| 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5  | 4.7              | 4.7                  | 4.7                | 4.7                 | 4.8              | 4.8              | 4.8              | 4.8              | 4.8                 | 4.8               | 8                 | 4.9                  | 4.9              | 4.9              | 4.9              | 4.9               | 4.9               | 4.9             |
| 5 US-10-840-512-161<br>5 US-10-840-512-161<br>5 US-10-840-512-117<br>3 US-09-050-516-45<br>4 US-10-278-547-45<br>4 US-10-646-873-45<br>4 US-10-646-873-45<br>4 US-10-489-740-216<br>5 US-10-489-740-216<br>5 US-10-489-740-216<br>5 US-10-489-740-216<br>5 US-10-466-873-46<br>4 US-10-278-547-46<br>5 US-10-646-873-46<br>5 US-10-646-873-46<br>6 US-10-408-765A-2462<br>8 US-10-408-765A-2462<br>4 US-10-408-765A-2462<br>4 US-10-408-765A-2462<br>4 US-10-408-765A-2462<br>4 US-10-408-765A-2462<br>4 US-10-408-765A-2462<br>4 US-10-408-765A-2462<br>5 US-10-408-765A-2462<br>6 US-10-408-765A-2462<br>8 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462<br>9 US-10-408-765A-2462  | 2843             | 1265                 | 2715               | 2527                | 2367             | 33               | ij               | 33               | 2519                | 2468              | 2468              | 4322                 | 35               | 35               | 35               | 1321              | 3262              | 3404            |
| US-10-840-512-16<br>US-10-840-512-117<br>US-9-050-516-45<br>US-10-278-547-45<br>US-10-278-547-45<br>US-10-437-963-104793<br>US-10-755-889-615<br>US-10-489-740-216<br>US-10-489-740-216<br>US-10-490-763-46995<br>US-10-278-547-46<br>US-10-646-873-46<br>US-10-489-765A-266<br>US-10-489-765A-266<br>US-10-489-765A-266<br>US-10-490-765A-266<br>US-10-490-765A-266<br>US-10-490-765A-266<br>US-10-490-765A-266   | ผ                | 4.                   | 4.                 | 4.                  | IJ               | 4                | 4.               | w                | U                   | ហ                 | 4.                | 4.                   | 4.               | 4.               | ω                | ഗ                 | v                 |                 |
|  | US-08-681-219-32 | US-10-437-963-138094 | US-10-408-765A-866 | US-10-408-765A-2462 | US-10-485-006A-6 | US-10-646-873-46 | US-10-278-547-46 | US-09-050-516-46 | US-10-450-763-46995 | US-10-489-740-216 | US-10-755-889-615 | US-10-437-963-104793 | US-10-646-873-45 | US-10-278-547-45 | US-09-050-516-45 | US-10-840-512-117 | US-10-840-512-161 | 03-10-3/3-301-4 |
|  | 32, Appı         | 138094,              | 866, App           | 2462, Ap            | 6, Appii         | 46, App1         | 46, APPI         |                  | 46995, A            | 216, App          | 615, App          | 104/93,              | 45, Appr         | 45, Appr         | 45, App1         | ddv ', TT         | 161, APP          | 100000          |

## ALIGNMENTS

RESULT 1 US-09-050-516-42

| ٠.                             | ٠. | ٠.                    |    | ٠. | ٠.                                   | ٠. | ٠. | ٠.               | ٠. | ٠.       | ٠. |                       | ٠.           | ٠.                                | ٠. | ٠.  | ٠.          | ٠.       | ٠. | ٠. | ٠.        | ٠. | ٠. | ٠. | ٠. | ٠.                | <b></b> | ٠.                      | ٠. | ٠.            | ••                                    | <b></b> . |                 |    |                 |                             | ٠.             | ٠.      | ٠.             | ٠.      | ٠.               | ٠.               | ٠.     | ٠. |   | <br>(0                               | SO.             |
|--------------------------------|----|-----------------------|----|----|--------------------------------------|----|----|------------------|----|----------|----|-----------------------|--------------|-----------------------------------|----|---|-------------|----------|----|----|-----------|----|----|----|----|-------------------|---------|-------------------------|----|---------------|---------------------------------------|-----------|-----------------|----|-----------------|-----------------------------|----------------|---------|----------------|---------|------------------|------------------|--------|----|---|--------------------------------------|-----------------|
| INFORMATION FOR SEQ ID NO: 42: |    | TELEFAX: 847/938-2623 | Į, | 2  | KETEKENCE/ DOCATE NOMBER: 0000.00.FF |    | ۲  | Y/AGENT INFORMAT |    | ATTON NO | A: | CHASSI FICATION DIES. | CINCULATION. | APPLICATION NUMBER: 05/05/050,510 | 2  | SOFTWARE: FastSEQ for windows version 2.0 | SYSTEM: DOS | IBM Comp | В  |    | 0064-3500 | 7  | H  | •  |    | EE: Abbott Labora |         | NUMBER OF SEQUENCES: 49 | н  | OF INVENTION: | NVENTION: REAGENTS AND METHODS USEFUL | STROUPE,  | : RUSSELL, JOHN | •• | CRATOCHVIL. JOI | APPLICANT: KLASS, MICHAEL R | : DAIDEN, PERK | GRANADO | GORDON, JULIAN | PRIEDMA | COLPITIS, TRACES | : COMEN, MAURICE | BILLIN |    | g | Sequence 42, Application US/09050516 | S-09-050-516-42 |

THE GASTROINTESTINAL

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RESULT 2
US-10-278-547-42
Sequence 42, Application US/10278547
Publication No. US20030082619A1
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATR)
COHEN, MAURICE
TRACEY L.
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Best Local Similarity 100.
Matches 679; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acids
STRANDEDNESS: single
TOPOLOGY: linear
MOLECUTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         QEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA 240
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                                                                                                                                                                                                                                                                                                                       VSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH
                                                                                                                                                                                                                                                                                                                                                                                          SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYS
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                                                                                                                                                                                                                                                                                                                                                                    SOSSDILERERESVIRREQEVAEERRNALFPEVFSPTPDENSDONSRSSSOASGITGSYS
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E: No. US20010010904Ale
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
HAYDEN, MARK
                                                                                                  BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 3583; DB 3; 100.0%; Pred. No. 7.9e-235;
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MOLECULE TYPE: NO. US20030082619A1e
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SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-278-547-42
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INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/10/278,547
PILING DATE: 23-OCC-2002
CLASSIFICATION: <UNKnown>
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <UNKnown>
APPLICATION NUMBER: 08/828,855
APPLICATION NUMBER: 08/828,855
APPLICATION NUMBER: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 6065.US.P1
TELECOMMUNICATION NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTEM: DOS WINDOWS VERSION
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
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 MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
                                                                                      NGHVVPIKPQVKGVVRBENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                                                         LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
                                                                                                                                                                                                    MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
                                                                                                                                                                                                                                                                                                  VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE
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COUNTRY: USA
                                                                    NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                                    LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
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INVENTION: REAGENTS AND METHODS USEFUL
POR DETECTING DISEASES OF TH
TRACT
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                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 3583; DB 4;
100.0%; Pred. No. 7.9e-235;
vative 0; Mismatches 0;
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Length

679; 0;

Indels

Gaps

0

120

80 60

180 180 120

240

360 300 300

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Indels Length

0;

Gaps

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RESULT 3
US-10-646-873-42
                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PASTSEQ for Windows Version 2.
CURRENT APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION : <Unknown>
PRIOR APPLICATION NUMBER: US/09/050,516
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
              NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.Pl
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Abbott Park
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HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATCCHVIL, JON D.
OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE
TRACT
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RESULT 4

US-09-050-516-47

Sequence 47, Application US/09050516

PATENT NO. US20010010904A1

GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA
APPLICANT: COLDITTS, TRACEY L.
APPLICANT: FRIEDMAN, PAULA N.
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MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-646-873-42
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Best Local Similarity
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INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VQRQGVSYSVHAYTGQDSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
                                                                                                                                                                                                                                                                              VSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH
                                                                                                                                                                                                                                                                                                                                                                                                                   KQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQK 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                                                                                          KNAMAERWESRIYASEEDD
                                                                                                                                                                                                                         KNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                            VSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH
                                                                                                                                                                                                                                                                                                                               SOSSDILLERERESVILREOEVALERRNAL FPEVFSPTPDENSDONSRSSSOASGITGSYS
                                                                                                                                                                                                                                                                                                                                                SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYS
                                                                                                                                                                                                                                                                                                                                                                                              KQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REEDHRREGLHVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QEREADLREQRGLRQATDHQELVETPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
     BILLING-MEDEL, PATRICIA COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
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Pred. No. 7.9e-235;
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420

360

480 480 420

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600 600 540 300 300 180 180 120 120 60 60

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US-10-278-547-47
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                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 215; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
PRIOR APPLICATION UMBER: 08/828,85
APPLICATION NUMBER: 08/828,85
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,41
REFERRNCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELECHONE: 847/235-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: FITTLE OF INVENTION: FITTLE OF INVENTION: 7
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: FASTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050 507
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APPLICANT:
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APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 215 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 847/938-2623
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                                                                                                                        645
                                                                                                                                                                                               585
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                                                                                                                                                              NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                           DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
                                                                                                                                                                                  NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                      MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                         DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
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STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
BEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HAYDEN,
HODGES,
                                                                                                                                                                                                                                                                                                                                                                      31.6%; Score 1132, DB 3; llarity 100.0%; Pred. No. 6.7e-69; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GORDON, JULIAN
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              single
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                                                                                         215
                                                                                                                                                                                                                                                                                                                                                                                                           Length 215;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Publication No. US20030082619A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTENCY for Windows Version 2.0
CURRENT APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVILL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear MOLECULE TYPE: No. US20030082619A1e SEQUENCE DESCRIPTION: SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BILLING-MEDEL,
                                                        645
                                                                                                                                                  121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 180
                                                                                                                                                                                                                                                                                                                                                                                                   525 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQQQVPH 524
                                                                                                                                                                                                                                                                                                                                61 VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    щ
                                                                                                                                                                                                          NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH 60
DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 215 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COHEN, MAURICE COLPITTS, TRACEY L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PATRICIA
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181 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215

US-10-646-873-47 RESULT 6

Sequence 47, Application US/10646873 Publication No. US20040043406A1

GENERAL

INFORMATION:

APPLICANT:

BILLING-MEDEL, PATRICIA FRIEDMAN, PAULA N.

COHEN, MAURICE

CORRESPONDENCE ADDRESS:
ADDRESSES: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park

NUMBER OF SEQUENCES:

TITLE OF INVENTION:

TOCHVIL, JON D.

TION: REAGENTS AND METHODS USEFUL

FOR DETECTING DISEASES OF THE GASTROINTESTINAL

GRANADOS,

JULIAN EDWARD N.

S, STEVEN C.

COMPUTER

TER READABLE FORM: MEDIUM TYPE: Diskette

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                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                   Matches 215;
                                                                                                                                                                                                                                                                                                                                                         TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                         TOPOLOGY: linear MOLECULE TYPE: No. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
                                   525 VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 584
                                                                                                               465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                            MSPRHLSBSSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                     TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: 08/828,855 FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516 FILING DATE: 30-MAR-1998
                                                                                                                                                                                                                                                                                                  STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
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                                                                                                                                                   Conservative
                                                                                                                                                                      100.0%;
                                                                                                                                                                                        31.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <Unknown>
                                                                                                                                             0;
                                                                                                                                                                    Score 1132; DB 4;
Pred. No. 6.7e-69;
                                                                                                                                                    Mismatches
                                                                                                                                                                                      Length 215;
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**US-10-029-386-33676** 

APPLICANT: Penn, Sharron G.

APPLICANT:

Rank, David R

APPLICANT: Hanzel, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: EXPRESSION ANALYSIS TWO

ON: EXPRESSION ANALYSIS TWO AEOMICA-X-2

TURRENT APPLICATION NUMBER: US/10/029,386

Sequence 33676, Application US/10029386 Publication No. US20030194704A1

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                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 167; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Pat
SEQ ID NO 4761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
CURRENT PRICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR FILING DATE: 1999-09-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 8564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR FILING DATE: 1999-11-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: PA005P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ruben et al
                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (55)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids NAME/KEY: MISC FEATURE LOCATION: (116)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DRGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH: 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             645 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
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                       668 WESRIYASEEDD 679
                                                                            101
                                                                                                   608 SPIHLHSNVAMTVEDPVDSAPPGQRKKEGWYAGINPSDGINSEVLEAIRVTRHKNAMAER 667
161 WESRIYASEEDD 172
                                                                                                                                                            41 ERERESVIRREQEVXEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFF
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                                                                                                                                                                                 ERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFF 607
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                                                                            SPIHLHSNVAWTVEDXVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAER
                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                             23.4%;
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                                                                                                                                                                                                                                                                                                                                               Score 839; DB 4;
Pred. No. 4.1e-49;
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                                                                                                                                                                                                                                                                                                                                                                Length 172;
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573

691

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CURRENT APPLICATION NUMBER: US/10/087,192
CURRENT FILING DATE: 2002-03-01
PRIOR APPLICATION NUMBER: US 09/747,377
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: US 09/798,586
PRIOR FILING DATE: 2001-03-02
NUMBER OF SEQ ID NOS: 2059
SOPTWARE: PASSSEQ for Windows Version 4.0
SEQ ID NO 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34288
SOFTWARE: Annomax Sequence Listing Er
SEQ ID NO 33676
LENGTH: 43
TYPE: PRT
ORGANISM: Homo sapiens
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-087-192-1320
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US-10-087-192-1320
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; OTHER INFORMATION: EXPRESSED IN HELA,
US-10-029-386-33676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1320, Application US/10087192 Publication No. US20020182586A1 GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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APPLICANT: Engelhard, Eric K.
TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS
TITLE OF INVENTION: CANCER
FILE REFERENCE: 529452000122
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                    472
                                                            334 LSLITAPRR-----ERGRPSLYVQRDIVQETQREEDHRREGLHVGRASTPDWVSEGP 385
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                                                                                                                                                                                                                                                                              APASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSRQAV----AKGQ---STPRL
                                                                                                                                                                                                                                                                                                                                                                  AAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQQEQLLLQKQLQQQQQQPPSQLCT 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                          RAFHEDKKPSKLFEDDEHEKEQYCIR----KVRPSEEMLELEKERRELIRSQAVKKNPGI 275
                  DGEFTSARAVLTVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDTT-----
                                                                                                                                              PGSLASVESPGTPKETPIEREIRLAQEREADLRE--QRGLRQATDHQELVEIPTRPLLTK 333
                                                                                                                                                                                           FSIKPFYRPLGSVNSDKPLTNP-----RPPSVGGPPEDSGASAAKGQKS-----
                                                                                                                                                                                                                                    -----GASQAPKAFNKPHLANGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDD 275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5.7%; Score 205; DB 4; Length 910; ilarity 19.9%; Pred. No. 4.4e-05; Conservative 105; Mismatches 228; Indels 292;
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APPLICANT: Fahy, Eoin D.
APPLICANT: Thang, Bing
APPLICANT: Zhang, Bing
APPLICANT: Zhang, Bradford W.
APPLICANT: Gibson, Bradford W.
APPLICANT: Marnock, Dalae E.
APPLICANT: Warnock, Dalae E.
APPLICANT: Warnock, Dalae E.
APPLICANT: Warnock, Dalae E.
APPLICANT: Warnock, Dalae E.
CITTLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEON
FILE REFERENCE: 660088.465
CURRENT APPLICATION NUMBER: US/10/408,765A
CURRENT FILING DATE: 2003-04-04
NUMBER OF SEG ID NOS: 3077
SOFTWARE: FASTSEQ for Windows Version 4.0
SEG ID NO 2018
LENGTH: 913
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US-10-408-765A-2018
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                              y Match 5.7%; Score 205; DB 4; ]
Local Similarity 19.9%; Pred. No. 4.4e-05;
hes 155; Conservative 105; Mismatches 228;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               386
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391
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                                                                                                                                                                                                                                                          RAFHEDKKPSKLFEDDEHEKEQYCIR----KVRPSEEMLELEKERRELIRSQAVKKNPGI
                                                                                                                                                                                                                                                                                                       RDAHQGRPTWALRPEDGEDKEMKTYRLDAGDADP-RRLCDLERERWAVIQGQAVRKSSTV 158
FSIKPFYRPLGSVNSDKPLTNP------RPPSVGGPPEDSGASAAKGQKS-----
                                                                                 APASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSRQAV----AKGQ---STPRL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAG-----TQRP------KNLMQTLM 847
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ------FSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVE
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                                                                                                                         PPRSTPLEENVVDR-----EQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTP--
                                                                                                                                                                       AAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQQEQLLLQKQLQQQQQQPPSQLCT 338
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                                    GASQAPKAFNKPHLANGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDD 275
                                                                                                                                                                                                                    -----LQGTPDHGDPRTPG----
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                                                                                                                                                                                                                                                                                                                                                                                             Length 913;
                                                                                                                                                                                                                                                                                                                                                  Indels 292;
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Gaps

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174

390

434

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Sequence 748, Application US/1071993

Publication No. US20040265849A1

GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASS
TITLE OF INVENTION: ALEMEIMER'S DISEASE, ME:
FILE REFERENCE: CLO01496
CCURRENT APPLICATION NUMBER: US/10/719,993
CCURRENT FILING DATE: 2003-11-24
NUMBER OF SEQ ID NOS: 55342
SOFTWARE: FBSETSEQ for Windows Version 4.0
SEQ ID NO 748
LENGTH: 923
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US-10-719-993-748
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; ORGANISM: Homo sapiens
US-10-719-993-748
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                                                                                                                                                                                Query Match
Best Local Similarity
Matches 155; Conserv
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        APASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSRQAV-----AKGQ---STPRL 400
                                      PPRSTPLEENVVDR-----EQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTP--
                                                                AAKWWNPPQEKTI EEQLDEEHLESHKKYKERKERRAQQEQLLLQXQLQQQQQQPPSQLCT
                                                                                                                                                                                 Conservative 105;
                                                                                                                                                                                 5.7%; Score 205; DB 5; Length 923;
19.9%; Pred. No. 4.5e-05;
ative 105; Mismatches 228; Indels 2
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                                                                                                                                                                                   Indels 292;
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APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS AS:
TITLE OF INVENTION: ALZHEIMER'S DISEASE, ME'
FILE REFERENCE: CL001496
CURRENT APPLICATION NUMBER: US/10/719,993
CURRENT FILING DATE: 2003-11-24
NUMBER OF SEQ ID NOS: 55342
SOFTWARE: Past-SEQ for Windows Version 4.0
SEQ ID NO 749
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Publication No. US20040265849A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                      Matches 155;
                                                                                                                                                                                                                                                                                                             Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 923
TYPE: PRT
ORGANISM: Homo sapiens
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175 PPRSTPLEENVVDR-----EQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTP--
                                                                                                                                                                                                                        100 RDAHQGRPTWALRPEDGEDKEMKTYRLDAGDADP-RRLCDLERERWAVIQGQAVRKSSTV
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                                                                                                                                                                      RAFHEDKKPSKLFEDDEHEKEQYCIR----KVRPSEEMLELEKERRELIRSQAVKKNPGI 288
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                                                       AAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQQEQLLLQKQLQQQQQQPPSQLCT 348
                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                5.7%; Score 205; DB 5; Length 923; 19.9%; Pred. No. 4.5e-05; tive 105; Mismatches 228; Indels 2
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METHODS OF DETECTION
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                                                                                                                  ---LQGTPDHGDPRTPG----
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-993-745
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US-10-719-993-745
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Publication No. US20040265849A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001496
CURRENT APPLICATION NUMBER: US/10/719,993
CURRENT FILING DATE: 2003-11-24
NUMBER OF SEQ ID NOS: 55342
SOFTWARE: FABESEQ for Windows Version 4.0
                                                                                                                                Query Match
Best Local Similarity
Matches 155; Conserv
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                                                                                                                              5.7%; Score 205; DB 5; llarity 19.9%; Pred. No. 5.7e-05; Conservative 105; Mismatches 228;
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APPLICANT: Zlotnik, Albert
TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
FILE REFERENCE: file
CURRENT APPLICATION UMBER: US/10/756,149
CURRENT FILING DATE: 2004-01-12
NUMBER OF SEQ ID NOS: 5818
SOFTWARE: Patentin version 3.2
SSEQ ID NO 4788
LENGTH: 1103
TYPE: PRT
                                                       Query Match 5.7%; Score 205; DB 5; I Best Local Similarity 19.9%; Pred. No. 5.7e-05; Matches 155; Conservative 105; Mismatches 228;
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                                                                                            Length 1103;
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| RESULT 15 Sequence 604, App Sequence 604, App Publication No. 1 GENERAL INFORMAT: APPLICANT: GENERIT FILE OF INVENT: FILE REFERENCE: CURRENT APPLICAY CURRENT APPLICAY CURRENT FILING DA PRIOR FILING DA PRIOR FILING DA PRIOR FILING DA PRIOR APPLICATION PRIOR APPLICATION PRIOR FILING DA P | <u> </u>   | 8                               | 8     | 음 성  | 음 성   | 문  | ঠ  | 음 성                 | <u> </u>  | 용                        | \$   | 음 중  | B 4        | ?     | <u> </u>   | 용                     | 8               | B  |
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| 15<br>16<br>16<br>16<br>16<br>17<br>18<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19   | 622<br>1041  | 996                             | 574   | 532<br>938                                   | 512<br>885  | 830  | 472  | 438<br>770          | 386<br>718  | 665                      | 334  | 276<br>625   | 581        |       | . 529  | 469                   | 159             | 413  |
| -10-631-467-604 -10-631-467-604 Sequence 604, Application US/10631467 Publication No. US20050208496A1 GENERAL INFORMATION: APPLICANT: Genox Research Inc. TITLE OF INVENTION: Method for testing for broncheal asthma, or chronic TITLE OF INVENTION: disease FILE REFERENCE: 3462.1005-000 CURRENT APPLICATION NUMBER: US/10/631,467 CURRENT APPLICATION NUMBER: US/10/631,467 CURRENT FILING DATE: 2003-07-31 PRIOR APPLICATION NUMBER: JP 2003-077212 PRIOR APPLICATION NUMBER: JP 2003-077212 PRIOR PILING DATE: 2003-03-20 PRIOR PILING DATE: 2003-08-06 NUMBER OF SEQ ID NOS: 2086 SOFTWARE: Patentin version 3.1 SEQ ID NO 604  | 2 DPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD<br> | TAPGKIEKVKPPPŠPTTEGPŠLQPDLAPEEA | FSPTP | 2 GAPALKLOKSOSSDLLERERESVLKREOEVAEERRNALPPEV | RAPDEPQAQVPHVWGW     ;     style="text-align: right;" | EQQG-PEATVEEAEAAAFGSEKPQSMFEPPQVSSPVQEKKDVLP | 2 ESSGKPLSTKQEASKPPR-GCP-QANRGVVRWEYFRLRPLRF | 3FAAFGAFGKPSSLSTA   | <pre>GPGLRRALSSOSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPCTPQLE  </pre> | :  <br>DGEFTSARAVLTVVKDD | LSLITAPRRERGRPSLYVQRDIVQETQREEDHRREGLHVGRAST | GGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQATDHQELVEIPTRPLLTK | PSIKPFYRPL |       | PPRSTPLERNVDREQIDFLAARQQFLSLEQANKGAPHSSFARGTFAGTTF | AAKWWNPPQEKTIEEQLDEEH | ATLQTPDHGDPRTPG | RAFHEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELEKERRELIRSQAVKKNPGI |
| c obstructive  | E 1100   | M 1040                          | E 621 | - 573<br>K 995                               | EVA 531<br>:<br>-MV 937                               |  | F 511  | S 471<br>:<br>A 829 | - 437<br>E 769  |                          | P 385  | E 664  |            | D 275 | L 580  |                       | - 174           | I 468  |

| g Q   | B &  | 음 성  | 문 &   | ß &                              | B 8                                 | 유 성  | g Qy   | 유 왕  | B &  | 유 성   | B 8  | 유 성  | Query M<br>Best Lo<br>Matches                             |
|---|--|--|---|----------------------------------|-------------------------------------|--|--|--|--|---|--|--|---|
| · 622   | 574 -<br>996 T                                       | 938  | 512  <br>885  | 472 I<br>830 I                   | 438 ·                               | 386 Q  | 334 I  | 276 1<br>625 1   | 226 ·<br>581 1                                   | 175 I<br>529 <i>J</i>   | 159 <i>I</i>                               | 100 F  | Match<br>Local  |
| DPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD : :: | FSPTPDENSDQNSRSSSQASGITGS                            | GAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALF            | RAPDEPQQAQVPHVW<br>                                 | ESSGKPLSTKQEAS<br>               | FSAFGAFGKPSSLSTAEAKAATSPKA-TMSPRHLS | QPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLE | LSLITAPRRERGRPSLYVQRDIVQETQREEDHRREGLHVGRASTPDWV   | PGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQATDHQELVEIPTRPLLTK | GASQAPKAFNKPHL<br> :: <br>PSIKPFYRPLGSVNSDKPLTNP | PPRSTPLEENVVDREQIDFLAARQOFLSLEQANKGAPHSSPARGTPA<br>                               | ATLQGTPDHGDPRTPG                           | RDAHQGRPTWALRPEDGEDKEMKTYRLDAGDADP-RRLCDLERERWAVIQGQAVRKSSTV | Similarity 19.9%; So<br>Similarity 19.9%; Postive 105;    |
| \GINPSDGINSEVLEAIR<br>  ;        <br>!SKLLSCKVTSEVLEATR         | FSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVE<br> | ESVLRREQEVAEER<br>:   : : : <br>RAAQEREEELKRQRQVLO | TRPEGSYFSKYSEAAELR                                  | EKPQS                            | A<br>;<br>;<br>SPLVDDPLEYQAGLLVQ;   | RAADPAPEVRKVNRIPPI<br> ::   : :<br> GASNETTNALQEN    | ERGRPSLYVQRDIVQETQREEDHRREGIHVGRASTPDWVSEGP        | EIRLAQEREADLREQH<br>  ;   ;     ;  <br>ASQGKEGPYSEPSKH     | ANGHVVP  | -EQIDFLAARQOFLSLEQANKGAPHSSPARGTPAGTTP<br>            ; ;   ;   ;   ;   ;   ;   ; | HLESHKKYKERKERRAQQ                         | EMKTYRLDAGDADP-RRL<br>                                       | Score 205; DB 5;<br>Pred. No. 5.7e-05;<br>Mismatches 228; |
| VTRHKNAMAERWESRIY<br>   | YSVSESPFFSPIHLHSNV<br> TQRPKNI                       | RNALFPEV<br>      :<br> STQSPRTKNAPSLPS            | QQAQVPHVWGWEVA<br>  ::   ::   :<br>RSTASLLATQESDVMV | KPPR-GCP-QANRGVVRWEYFRLRPLRF<br> | EAKAATSPKA-TMSPRHLS<br>             | DAYQPYLSPGTPQLE<br>::       :<br>SLADFSLPQTPQTDNPS   | EDHRREGIHVGRASTPDW<br>  ;      <br>DSGLDELSVRSQDTT | RGLRQATDHQELVEIPTR   | IKPQVKGVVREENKVRAVPTWASVQVVDD                    |   | LQGTPDHGDPRTPG<br>   ;<br> LQGTQDQQQQPPSQL | CDLERERWAVIQGQAVR<br>   :   : :    :<br> LELEKERRBLIRSQAVK   | Length 1103;<br>Indels 292;                               |
|   |  | PEV 5<br>  :<br>PSLPSRTCYK 9                       | GWEVA<br>:<br>MV                                    | LRF<br>  <br>RALRE               |                                     |  | SEGP   |  |  | -   | G 174<br>SQLCT 528                         | KSSTV 158<br> :<br>  :<br>  : :                              | Gaps  |
| 679<br>1100   | 621<br>1040  | 573<br>995   | 531<br>937  | 511<br>884                       | 471<br>829                          | 437<br>769   | 385<br>717   | 333  | 275<br>624                                       | 225<br>580  | 74   | 8 8  | 33,   |

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RESULT 1
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; Sequence 167, Application US/11169041
; Publication No. US20060019284A1
; GENERAL INFORMATION:
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; ORGANISM: Homo sapiens
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 167
LENGTH: 863
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TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES FOR PREDICTING ACTIVITY OF
TITLE OF INVENTION: COMPOUNDS THAT INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE
TITLE OF INVENTION: KINASES AND/OR PROTEIN TYROSINE KINASE PATHWAYS IN LUNG CANCER
TITLE OF INVENTION: CELLS
FILE REFERENCE: 10001 NP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/11/169,041
CURRENT FILING DATE: 2005-06-28
PRIOR APPLICATION NUMBER: 60/584,405
PRIOR FILING DATE: 2004-06-30
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Local Similarity 22.8%;
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                                                                                                                    EQANKGAPHSSPA---RGTPAGT--TPGASQAPKAFNKPHLANGHVVPIKPQVKGVVREE
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                                                             NKVRAVPTWASVQV-----VDDPGSLASVES-PGTPKETPIEREIRLAQEREADLREQ 310
                                                                                         ----NGRLHELPVPKPRGTPKPSEGTPAPRKDP-----PWIT---LVQAEPKKKPAPLPP 388
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US-10-330-773-85
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Pred. No. 0.0028;
5; Mismatches 231; Indels 242;
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; NUMBER OF SEQ ID NOS: 1
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; LENGTH: 2479
; TYPE: PRT
; ORGANISM: Neurospora C
US-11-087-099-2391
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Best Local Similarity
Matches 132; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Abad, Mark S. et al.

IITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
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                                                                                                                                                                                                                    SPARGTPAGTTPGASQAPKAFNKPHLANGHVVPIKPQVKGVVR--EENKVR-AVPTWASV 270
                                                                                                                                                                                                                                                                                                        QEAEDKAREELRLLELVRQDAVKAEKAKAAELGNWNVAVNEKAAAAERRRIVREAEEATL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             --NPFNRKPSPAASPA---TKKATKGSKPVRPPAPGHGFPLIKRKVQADQYI-PEEDIHG
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                                                                                              HQELVEIPTRPLLTKL--SLITAPRRERGRPSLY----VQRDIVQETQREBDHRREGLHVG 373
                                                                                                                                                         QVVDDPGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQA------TD
                                                                                                                                                                                                                                               AKTTVEKTPKTFTPGGKLTSVAASRGDVSRTRDNHKFVPFLKTSKVAAARSEAAKDADRK
                                                                                                                                                                                                                                                                          QGTPDHGDPRT---PGPPRSTPLEENVVDREQ----IDFLAARQQFLSLEQANKGAPHS
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                                          RASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADP-----APEVRKVNRIPPDAYQ 426
                                                                                                                                                                                      HAAAGAEKRO---ALEAAGAEKRKEIKKGNOOP-----GVVKASEANVPKSADPAISKS
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                                                                      FEANVPKPADPVISKSPEASIPTPLTEVEKPRNFYETIRRREWEAQREEAKKTD-----
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                                                                                                                                                                                                                                                                                                                                                              87; Mismatches
                                                                                                                                                                                                                                                                                                                                                                             Score 158; DB 7; Length 2479; Pred. No. 0.011;
             -EAEKIIKP-PKADISKPSEANVHKAPE--XINK-PPEA--
                                                                                                                                                                                                                                                                                                                                                              222; Indels 192;
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QRGLRQATDHQELVEIPTRPLLTXLSLITA---PRRE------
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APPLICANT: Veiby, Petter Ole
APPLICANT: Veiby, Petter Ole
TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
TITLE OF INVENTION: AND OVARIAN CANCER
FILE REFERENCE: MRI-039
[CURRENT APPLICATION NUMBER: US/11/080,991
[CURRENT FILING DATE: 2005-03-11
[PRIOR APPLICATION NUMBER: US/10/176,847
[PRIOR FILING DATE: 2002-06-21
[NUMBER OF SEQ ID NOS: 112
[SOFTWARE: FastSEQ for Windows Version 4.0
[SEQ ID NO 54
[LENGTH: 2828
[TYPE: PRT]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
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                                                                                                                                                                                                                                     MANKQINPERWADILAKVRGKNLPKGTEVPPL----IKTTSPPS---
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-----LGEEEHVLGTISSASMGLEHNHNGVILVEPEVT--STPLEEVVDDLSEKTEEITS
                                                      QVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLAQEREADLRE 309
                                                                                                                                                                       QIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLANGHVVPIKP
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19.6%; Pred. No. 0.016;
ative 85; Mismatches 305;
                                                                                                                    LSLE-VTPPFPAVSPPSASPVQTVTSAEESSAD-------VPL--
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US-11-186-284-49
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US-11-186-284-49
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Query Match 4.4%; Score 156.5; DB 7; Best Local Similarity 19.6%; Pred. No. 0.016; Matches 167; Conservative 85; Mismatches 305;
                                                                                                                                           SEQ ID NO 49
LENGTH: 2828
                                                                                                                                                                                                                    PRIOR FILING DATE: 2001-12-10
PRIOR APPLICATION NUMBER: US 60/361,978
PRIOR FILING DATE: 2002-03-05
PRIOR APPLICATION NUMBER: US 60/381,988
PRIOR FILING DATE: 2002-05-20
                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/11/186,284
CURRENT FILING DATE: 2005-07-21
PRIOR APPLICATION NUMBER: US/10/301,822
PRIOR FILING DATE: 2002-11-21
PRIOR PILING DATE: 2002-11-21
PRIOR PILING DATE: 2001-12-10
PRIOR FILING DATE: 2001-12-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Thibodeau, Stephen N.
APPLICANT: Burgart, Lawrence J.
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION,
TITLE OF INVENTION: THERAPY OF COLON CANCER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Millennium Pharmaceuticals, APPLICANT: Berger, Allison
                                                                                                                                                                                 NUMBER OF SEQ ID NOS:
SOFTWARE: FastSEQ for
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                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: MPM01-029P2RNM
                                                                                                                        TYPE: PRT
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Guillemette, Tracy L.
Kamatkar, Shubhangi
Schlegel, Robert
Monahan, John E.
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                                                                                                                                                                                     RESULT 5
US-11-072-175-242
                                                                                                                          Sequence 242, Application US/11072175 Publication No. US20060029944A1 GENERAL INFORWATION:
                               APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
FILE REFERENCE: D0273A CIP
          CURRENT APPLICATION NUMBER: US/11/072,175
                             FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1141
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                                                                                                                                                                                                                                                                                                                                                                                               SNVAWTVEDPVDSA----
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CURRENT FILING DATE: 2005-03-05
PRIOR APPLICATION NUMBER: US 60/406,385
PRIOR FILING DATE: 2002-08-27
PRIOR APPLICATION NUMBER: US 10/648,593
PRIOR PILING DATE: 2003-08-26
NUMBER OF SEQ ID NOS: 571
SOFTWARE: Patentin version 3.2
SEQ ID NO 242
LENGTH: 758
TYPE: PRT
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US-11-114-906-8
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                                                                                                                   Sequence 8, Application US/11114906 Publication No. US20050266452A1 GENERAL INFORMATION:
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Best Local :
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APPLICANT: Turner, C. Alexander Jr.
APPLICANT: Mathur, Brian
APPLICANT: Friddle, Carl Johan
APPLICANT: Friddle, Carl Johan
TITLE OF INVENTION: Novel Human Kinases and Polynucleotides Encoding the Same
FILE REFERENCE: LEX-0281-USA
CURRENT APPLICATION NUMBER: US/11/114,906
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KAFNKPHLANGHVVPIKPOVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKET 291
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DAGDADPRRLCD-----LERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRST 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -----PGSETSDAKSTPTAED-----VTAPLVDEGAPGKQAAAQPHTEIPEGTTAE 104
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWE
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CURRENT FILING DATE: 2005-04-26
PRIOR APPLICATION NUMBER: US/10/413,437
PRIOR FILING DATE: 2003-04-11
PRIOR APPLICATION NUMBER: US/10/020,079
PRIOR FILING DATE: 2001-12-12
PRIOR PPLICATION NUMBER: US 60/255,103
PRIOR FILING DATE: 2000-12-12
PRIOR PPLICATION NUMBER: US 60/259,422
PRIOR APPLICATION NUMBER: US 60/289,422
PRIOR PILING DATE: 2001-05-08
NUMBER OF SEQ ID NOS: 40
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
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Best Local Similarity
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ORGANISM: homo :
FEATURE:
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LOCATION: (1)...(751)
OTHER INFORMATION: Xaa =
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PLAAGNHRLMPSVLRI----SRSQLQQVW
                                   VVRWEYERLRPLRFRAPDEPQQAQVPHVW 526
                                                                                                                    FSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRG 497
                                                                                                                                                            --SQPPTPG----SPSHSPLHSGPRPRRRESDPTGPQRQLEE---DRLSGHSLPRYSPLR
                                                                                                                                                                                                  WVSEGPQPGLRRALSSDSIL--SPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLE
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                                                                              RLASSVF----SSSTLETEHYPHPGGGGS----SGSSGSLIQRSRSAESSPVRAPHRRHA
                                                                                                                                                                                                                                             EDLQHLPPQPLPPQLS-----QXD--
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; Pred. No. 0.0096;
44; Mismatches 20
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RESULT 7

US-11-114-906-6
; Sequence 6, Application US/11114906
; Publication No. US20050266452A1
; GENERAL INFORMATION:
; APPLICANT: Turner, C. Alexander Jr.

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RESULT 8
US-11-114-906-4
; Sequence 4, Ap
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/11/114,906
CURRENT FILING DATE: 2005-04-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 40 SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US/10/413,437
PRIOR FILING DATE: 2003-04-11
PRIOR APPLICATION NUMBER: US/10/020,079
PRIOR FILING DATE: 2001-12-12
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TITLE OF INVENTION: Novel Human Kinases and Polynucleotides Encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION: (1)...(764)
OTHER INFORMATION: Xaa =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: VARIANT
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FILING DATE: 2000-12-12
APPLICATION NUMBER: US 60/289,422
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                                                                                                                                                                                                                                                                                                                                            546
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           429
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                                                                                                                                                                                                                                                                                                           QELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQREEDHRREGLHVGRASTPD 379
                                                                                                                                                                                                                                                                                                                                            IDKETELKDFPPGAEPSTSGTTDEEPEELRPLPEEGEERRLGAEPTVRPRGRSMQALAE
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                                                                                                                                               RLASSVF----SSSTLETEHYPHPGGGGS----SGSSGSLIQRSRSAESSPVRAPHRRHA
                                                                                  PLAAGNHRLMPSVLRI----SRSQLQQVW
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Pred. No. 0.0099;
4; Mismatches 203; Indels 1
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; NAME/KEY: VARIANT
; LOCATION: (1)...(864)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-11-114-906-4
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CURRENT FILING DATE: 2005-04-26
PRIOR APPLICATION NUMBER: US/10/413,437
PRIOR FILING DATE: 2003-04-11
PRIOR APPLICATION NUMBER: US/10/20,079
PRIOR FILING DATE: 2001-12-12
PRIOR FILING DATE: 2001-12-12
PRIOR FILING DATE: 2001-12-12
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PRIOR FILING DATE: 2000-12-12
PRIOR FILING DATE: 2000-12-12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 4.2%;
Best Local Similarity 21.8%;
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APPLICANT: Mathur, Brian
APPLICANT: Friddle, Carl Johan
APPLICANT: Friddle, Carl Johan
TITLE OF INVENTION: Novel Human Kinases and Polynucleotides Encoding the Same
FILE REFERENCE: LEX-0281-USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2001-05-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: homo
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PLAAGNHRLMPSVLRI----SRSQLQQVW
                                                                                                                                         FSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRG 497
                                                                                                                                                                                            --SQPPTPG----SPSHSPLHSGPRPRRESDPTGPQRQLEE---DRLSGHSLPRYSPLR
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                                                  VVRWEYFRLRPLRFRAPDEPQQAQVPHVW 526
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                                                                                                -SSSTLETEHYPHPGGGGS----SGSSGSLIQRSRSAESSPVRAPHRRHA 832
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US-11-114-906-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 124; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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PRIOR APPLICATION NUMBER: US 60/255,103
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 60/289,422
PRIOR APPLICATION NUMBER: US 60/289,422
PRIOR FILING DATE: 2001-05-08
NUMBER OF SEQ ID NOS: 40
SOFTWARE: FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: LEX-0281-USA
CURRENT APPLICATION NUMBER: US/11/114,906
CURRENT FILING DATE: 2005-04-26
PRIOR APPLICATION NUMBER: US/10/413,437
PRIOR APPLICATION NUMBER: US/10/020,079
PRIOR APPLICATION NUMBER: US/10/020,079
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APPLICANT: Mathur, Brian
APPLICANT: Friddle, Carl Johan
TITLE OF INVENTION: Novel Human Kinases and Polynucleotides Encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 870
TYPE: PRT
ORGANIEM: homo sapiens
FEATURE:
FEATURE:
VARIANT
LOCATION: (1)...(870)
OTHER INFORMATION: Xaa = Any Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            y Match 4.2%; Score 149; DB 7; Length 870;
Local Similarity 21.8%; Pred. No. 0.012;
hes 124; Conservative 44; Mismatches 203; Indels 1
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                                                  438 FSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRG 497
                                                                                                                                                                                                                                                                                                                                                                                                               595 CSSQPAQMLSVDTGHADRQASGRMDVSASVEQEALSNAFRSVPLAEEEDFDSKEWV---I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 210 APHSSPARGTP-AGTTPGASQAPKAFNKPH-----LANGHV-------VPIKP----
     787
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              39 EASGW----GODEPQTWPTDHRAQQGVQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVY 95
                                                                                                                                                     WVSEGPOPGLRRALSSDSIL--SPAPDARAADPAPEVRKVNRIPPDAYOPYLSPGTPOLE 437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GVPSSPVRAPPDSPTTPVRSLRYRRVNSPESERLSTADGRVELPERRSRMDLPGSPSRQA 594
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                                                                                                                                                                                                                                                                                                                                                               VD-----DPGSLASV-----ESPGTPKETPIEREIRLAQEREADLREQRGLRQATDH 319
RLASSVF---
                                                                                                                                                                                                                                                          QELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQREEDHRREGLHVGRASTPD 379
                                                                                                                                                                                                                                                                                                            IDKETELKDFPPGAEPSTSGTTDEEPEELRPLPEEGEERRRLGAEPTVRPRGRSMQALAE
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  -SSSTLETEHYPHPGGGGS----SGSSGSLIQRSRSAESSPVRAPHRRHA 838
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; TYPE: PRT
; ORGANISM: Homo s
US-11-241-056-14
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US-11-241-056-14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.1 SEQ ID NO 14
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APPLICANT: Bird, Timothy A.
APPLICANT: Virca, G. Duke
APPLICANT: Martin, Unja
APPLICANT: Anderson, Dirk M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US/09/980,464
PRIOR FILING DATE: 2001-11-27
NUMBER OF SEQ ID NOS: 36
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CURRENT APPLICATION NUMBER: US/11/241,056
CURRENT FILING DATE: 2005-09-30
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APPLICANT: Anderson, Dirk M.
TITLE OF INVENTION: NOVEL MURINE AND HUMAN KINASES
                                                                                                                                                                                                                                                                                                                                                                  365
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    223 AIEMAEGAPPLCDMHPMRALFLIPRNPAPRLKSKKWSKKFQSFIESCLVKNHSQRPATEQ 282
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                                                  WEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRREQE 560
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       -----SPALARKNSPGNGSALG-PRIGSOPIRASN------PDIRRTEP 716
                                                                                                                                                       EAKAATSPKATMSPRHLSE--SSGKPLST------KQEASKPPRGCPQANRGVVR 500
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20.3%; Pred. No. 0.022;
ative 87; Mismatches 251;
                                                                                                          PRONSDPTSENPPLPTRIEKFDRSSWLROEEDIPPK-VPORTTSI--
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RESULT 11
US-11-124-368A-305
US-11-124-368A-305
Sequence 305, Application US/11124368A
Publication No. US20050287559A1
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 305
LENGTH: 2801
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Best Local Similarity
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ORGANISM: Homo sapiens
-11-124-368A-305
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Michele Cargill APPLICANT: James J. Devli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Genetic Polymorphisms Associated with TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof FILE REFERENCE: CL001524
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                                                                                                                                       369 GLHVGRASTPDWVSEGPQPGLRRALSSDSILS----PAPDARAADPAPEVRKVNRIPPDA
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                                                                                                                                                                                                                                                                                                                              PGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQAT-----DHQELV 323
                                                                                                                                                                                                                                                                                                                                                                                  TPKEKAQALEDLAGFKELFQTPGHT------EELVAAGKTTKIP-----CDS
                                                                                                                                                                                                                                                                                                                                                                                                                            APK-----AFNKPHLANGHVVPIKPQVKGVVREE----NKVRAVPTWASVQVVDD 275
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KSEGSPVLPHEPAKVKPEE-----SRDITRPSRPASYKKAIDE
                                                                                                                                                                                                                                                                                    PQS-DPVDTPTSTKQRP-KRSIRKA-DVEGELLACKNIMPSAGKAMHTPKPSVGEEKDII 855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -QGQAVRKSSTVATLQGTPDHGDP------RTPGPPRS--TPLEENVVDREQID 192
    GETTHTDKVPGGEDKSINÄFRE-----TAKQKLDPAASVTGSKRHPKTKEKAQPLEDLAG 1014
                                                                                             AVAAGKTTKMPCESSPPE----SADTPTSTRRQPKTPLEKRDVQKELSALKKLTQTS
                                            YQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRH-LSESSGKPL----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4.1%; Score 148; DB 7; Length 2801; 19.6%; Pred. No. 0.059;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   95;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   251; Indels 238;
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US-11-124-367A-433
; Sequence 433, Application US/11124367A
; Publication No. US20060024700A1
; Publication No. US20060024700A1
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TITLE OF INVENTION: Genetic Polymorphisms Associated with
TITLE OF INVENTION: Fibrosis Methods of Detection and Uses
FILE REFERENCE: CL001519.ORD
CURRENT APPLICATION NUMBER: US/11/124,367A
CURRENT FILING DATE: 2005-05-09
PRIOR APPLICATION NUMBER: US 60/568,846
PRIOR APPLICATION NUMBER: US 60/582,609
PRIOR FILING DATE: 2004-05-07
PRIOR APPLICATION NUMBER: US 60/582,609
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US 60/582,509
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US 60/599,554
PRIOR FILING DATE: 2004-08-09
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SOFTWARE: FastSEQ for Windows
SEQ ID NO 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 4.1%; Score 148; DB 7; Length 2801; Best Local Similarity 19.6%; Pred. No. 0.059; Matches 142; Conservative 95; Mismatches 251; Indels 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Michele Cargill APPLICANT: Hongjin Huang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENGTH: 2801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1181 SLGKVG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       560 EVABERRNAL----FPEVF------
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                                                                                                                                                                                                                                                                                       193 FLAARQOFLSLEO----ANKGAPHSSPA------RGTP-----AGTTPGAS---Q 229
                                                                                                                                                                                                                                                                                                                                                                                       148
                                                                                                                                                                                                                                                                                                                                                                                                                                    584 LAVGKFTRTSGETTHTHREPAGDGKSIRTFK----ESPKQILDPAARVTGMKKWPRTPK 638
    324 EIPTRPLLTKLSL---ITAPRRERGRPSLYVQRDIVQETQREED----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            44 GODEPOTWPTDHRAQQGVQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARD-- 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASGITG 597
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                                                                                                                                                                                                                                                                                                                                      EBAQSLEDLAGFKELFQTPGPSEESMTDEKTTKIACKSP-PPESVDTPTSTKQWPKRSLR 697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKS-----QSSDLLERERESVLRREQ 559
                                                                                                                                                 TPKEKAQALEDLAGPKELFQTPGHT------EELVAAGKTTKIP-----CDS 798
                                                                                                                                                                                           APK-----AFNKPHLANGHVVPIKPQVKGVVREE----NKVRAVPTWASVQVVDD 275
                                                                                                                                                                                                                                             KADVEEEFLALRKITPSAGKAMLTPKPAGGDEKDIKAFMGTPVQKLDLAGTLPGSKRQLQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----AHQGRPTWALRPEDGEDKEMKTYRLDAGDADPRRLCD----LERERWAVI-- 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ĠQNLLQT--QDH-AKAPKSEKGKITKMPCQSLQPEPINTPTHTKQQLKASLGKVGVKEEL
                                                   PQS-DPVDTPTSTKQRP-KRSIRKA-DVEGELLACRNIMPSAGKAMHTPKPSVGEEKDII
                                                                                                                                                                                                                                                                                                                                                                                     -QGQAVRKSSTVATLQGTPDHGDP------RTPGPPRS--TPLEENVVDREQID 192
                                                                                                PGSLASVESPGTPKETPIEREIRLAQEREADLREQRGLRQAT------DHQELV 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Version 4.0
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; LENGTH: 2896
; TYPE: PRT
; ORGANISN: Homo sapiens
US-11-124-368A-306
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US-11-124-368A-306
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                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: May Luke
TITLE OF INVENTION: Genetic Polymorphisms Associated with
TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
FILE REFERENCE: CL001524
CURRENT APPLICATION NUMBER: US/11/124,368A
CURRENT FILING DATE: 2005-05-09
PRIOR APPLICATION NUMBER: US 60/568,845
PRIOR FILING DATE: 2004-05-07
PRIOR FILING DATE: 2004-05-07
PRIOR APPLICATION NUMBER: US 60/625,936
PRIOR FILING DATE: 2004-11-09
NUMBER OF SEQ ID NOS: 21112
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Michele Cargill APPLICANT: James J. Devli: APPLICANT: May Luke
                                                                                                                                                                                                                                                                                                                   Match 4.1%; Score 148; DB 7; Length 2896; Local Similarity 19.6%; Pred. No. 0.061;
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                                      193
                                                                         734
                                                                                                                                                  679
                                                                                                                                                                                   102 -----AHQGRPTWALRPEDGEDKEMKTYRLDAGDADPRRLCD-----LERERWAVI--
   793
                                                                                                                                                                                                                                                                                                   142; Conservative
                                                                                                                                                                                                                                                             44 GQDEPQTWPTDHRAQQGVQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARD--
                                    FLAARQQFLSLEQ----ANKGAPHSSPA-----RGTP-----AGTTPGAS---Q 229
                                                                                                              -QGQAVRKSSTVATLQGTPDHGDP-----RTPGPPRS--TPLEENVVDREQID 192
                                                                                                                                                LAVGKFTRTSGETTHTHREPAGDGKSIRTFK----ESPKQILDPAARVTGMKKWPRTPK 733
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 KADVEEEFLALRKLTPSÄGKAMLTPKPÄGGDEKDIKAFMGTPVQKLDLÄGTLPGSKRQLQ 852
                                                                         EEAQSLEDLAGFKELFQTPGPSEESMTDEKTTKIACKSP-PPESVDTPTSTKQWPKRSLR 792
                                                                                                                                                                                                                        GONLLOT--ODH-AKAPKSEKGKITKMPCOSLOPEPINTPTHTKQQLKASLGKVGVKEEL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKS-----QSSDLLERERESVLRREQ 559
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                                                                                                                                                                                                                                                                                                 95; Mismatches
                                                                                                                                                                                                                                                                                                   251; Indels 238;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           --SPTPDENSDQNSRSSSQ 591
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APPLICANT: Hongjin Huang
ITILE OF INVENTION: Genetic Polymorphisms Associated with
ITILE OF INVENTION: Genetic Polymorphisms Associated with
ITILE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
FILE REFERENCE: CL001519.ORD
CURRENT APPLICATION NUMBER: US/11/124,367A
CURRENT FILING DATE: 2005-05-09
FRIOR APPLICATION NUMBER: US 60/568,846
FRIOR APPLICATION NUMBER: US 60/582,609
FRIOR APPLICATION NUMBER: US 60/582,609
FRIOR APPLICATION NUMBER: US 60/599,554
FRIOR FILING DATE: 2004-08-09
NUMBER OF SEQ ID NOS: 34460
SOPTWARE: FRASTSEQ for Windows Version 4.0
SEQ ID NO 434
LENGTH: 2896
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                     Local Similarity
les 142; Conserv
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102 -----AHQGRPTWALRPEDGEDKEMKTYRLDAGDADPRRLCD----LERERWAVI--
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                                                                                                                                 44 GODEPOTWPTDHRAQQGVQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARD--
                                                                             GONLLOT--ODH-AKAPKSEKGKITKMPCQSLQPEPINTPTHTKQQLKASLGKVGVKEEL
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                                                                                                                                                                                     Score 148; DB 7;
Pred. No. 0.061;
5; Mismatches 251
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Sequence 304, Application US/11124368A
Publication No. US20050287559A1
GENERAL INFORMATION:
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                                      US-11-124-368A-304
                                                     NUMBER OF SEQ ID NOS: 21112

SOPTWARE: PASTSEQ for Windows Version 4.0

SEQ ID NO 304

LENGTH: 3256

TYPE: PRT

ORGANISM: Homo sapiens
                                                                                                                                                                            FILE REFERENCE: CL001524
CURRENT APPLICATION NUMBER: US/11/124,368A
CURRENT FILING DATE: 2005-05-09
PRIOR APPLICATION NUMBER: US 60/568,845
PRIOR FILING DATE: 2004-05-07
PRIOR APPLICATION NUMBER: US 60/625,936
PRIOR FILING DATE: 2004-11-09
                                                                                                                                                                                                                                                                                                                          APPLICANT: James J. Devlin
APPLICANT: May Luke
TITLE OF INVENTION: Genetic Polymorphisms Associated with
TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Michele Cargill
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                                                                              QTPKEKAQALEDLAGFKELFQTRGHTEESMTNDKTAKVACKSSQPDPDKNPASSKRRLKT 1635
                                                                                                                                                                                                         LRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKS-----QSSDLLERERESVLRREQ 559
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GLHVGRASTPDWVSEGPQPGLRRALSSDSILS----PAPDARAADPAPEVRKVNRIPPDA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KADVEEE FLALRKLTPS AGKAMLTPK PAGGDEKDIKAFMGTPVQKLDLAGTLPGSKRQLQ
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                                                                                                                                                                                                                                                                                                                                                                                                                        AVAAGKTTKMPCESSPPE-----SADTPTSTRROPKTPLEKRDVQKELSALKKLTQTS
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                                         ASGITG 597
                                                                                                                                                                   ---RTPSAGKAMHTP-----KPAVSGEKNIYAFMGTPVQKLDLTENLTGS--KRRL 1575
                                                                                                                                                                                                                                                      LKELFQTPVCTDKFTTHEKTTKIACRSQPDPVDTFTSSKPQSKRSLRKVDVEEEFFALRK 1529
                                                                                                                                                                                                                                                                                                                                       GETTHTDKVPGGEDKSINAFRE----TAKQKLDPAASVTGSKRHPKTKEKAQPLEDLAG 1469
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                                                                                                                            EVAEERRNAL ---- FPEVF--
                                                                                                                                                                                                                                                                                              -----STKQEASK------PPRGCPQANRGV----VRWEYFRLRP 508
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Query Match

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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Aaw79676 Human CS1
Aaae07319 Human CS
Ada26379 Predicted
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Adx97562 Pancreati
Aam79574 Human pro
Adm79576 Human pro
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Aaw79671 Human CO1
Abo60042 Human gen
Aag73987 Human col
Abo60042 Human CS1
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Ada17177 CS1.98 pro
Aaw79679 Synthetic
Ada26380 Synthetic
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Adn17175 CS1.98 pep
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61 VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE

Query Match Best Local Similarity Matches 679;

Conservative

100.0%; Score 679; I 100.0%; Pred. No. 0; tive 0; Mismatches

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| Sequence | This s method sample tract diagno or det tract, gastri pancre  | Claim           | New g<br>for d<br>gastr  | WPI;           | Billing-I<br>Granados<br>Roberts-I                        | (ABBO    | 31-MA         | 30-MA          | 08-00        | W0984        | Homo    | Gastr<br>human<br>gastr<br>pancr   | Human         | 11-JA       | AAW79676 | RESULT 1<br>AAW79676<br>ID AAW79676 |            | 30<br>31<br>31   |  |
| nce 679  | This sequence method to det te method to det tract disorde diagnosing, so or determinin tract, such a gastritis, le pancreatitis   | 26; Page        | astroin<br>evelopi<br>ointest  | 1998-542714/46 | Billing-Medel P<br>Granados EN, H<br>Roberts-Rapp L,      | ) ABBOTT | 31-MAR-1997;  | 30-MAR-1998;   | 08-OCT-1998. | W09844159-A1 | sapiens | Gastrointestinal<br>human; predispos<br>gastritis; leiom<br>pancreatitis.  | Human CS198 p | 11-JAN-1999 | 676;     |                                     |            | 31<br>30<br>30   |  |
| AA;      | ce represe etect the CS198 gen ders. The staging, ing the pr as GI tra as GI tra as GI tra as GI tra   | ge 100-102;     | New gastrointestinal pol<br>for developing products<br>gastrointestinal disorde  | 2714/46        | A,<br>layde<br>Ru   | IT LAB.  | 97US-00828855 | 98WO-US006251. |              | •            | •       |  | protein.      | (first      |          | standard; p                         |            |  |  |
|          | resents the pre gene i fhe met fre met genei tract tract oma, po   |                 | inal polynu<br>roducts for<br>disorders,   | •              | Cohen<br>n M,<br>ssell                                    |          | -0082         | -usoc          |              |              | •       | PH   | •             | entry)      |          | protein;                            |            | 4446666  |  |
|          | resence is use ethods conitori disposit cance polyps,  | 127]            | for<br>for   |                |   |          | 885           | 6251           |              |              |         | treatm<br>polyps;  |               | ડ           |          | in;                                 |            | 4000400  |  |
|          | human CS198 protein of a target CS198 ful as a marker for and products can be not prognosticating, prognosticating toon to diseases and tion to diseases ar, Barret's oesoph Crohn's disease, 1  | 127pp; English. | polynucleotides, CS198, and their det<br>te for the diagnosis and treatment of<br>orders, e.g. cancers, gastric ulcer or |                | Colpitts TL, Fried<br>dges SC, Klass MR,<br>, Stroupe SD; |          |               | ı.             |              |              |         | GI tract; cancer; disease; detection;<br>treatment; Barret's ossophagus; gastri<br>polyps; Crohn's disease; ulcerative col |               |             | -        | 679 AA.                             | ALIGNMENTS | AAE07321<br>ADA26381<br>ADM17174<br>AAW79680<br>AAE07323<br>ADA26383<br>ADM17176   |  |
|          | n which is used in a polymuclectide in a test polymuclectide in a test grant g |                 | ir detection - used<br>ment of<br>cer or gastritis.  |                | man PN, Gordon J;<br>Kratochvil JD;                       |          |               |                |              |              |         | etection; CS198;<br>s; gastric ulcer;<br>ative colitis;  |               |             |          |                                     |            | Aae07321 Human CS<br>Ada26381 Synthetic<br>Adn17174 CS198 pep<br>Aaw79680 Synthetic<br>Aae07323 Human CS<br>Ada26383 Synthetic<br>Adn17176 CS198 pep |  |

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                                                                                                                                                                                                                                                                                                             Misc-difference
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                                                                               97US-00828855
                                                                                                                                 98US-00050516
                                                                                                                                                                                                                                                                                                             Location/Qualifiers 353
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                                                                                                                                                                                                                                                                                                                                                                                                                                         gene therapy; drug
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LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA

LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA

NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA

120 120 120 180 180 240 240

NGHVVPÍKPQVKGVVREŠNKVRÁVPTWÁSVQVVDDÞĠSLÁSVESPGTPKETPIEREIRLÁ QEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ MKTYRLDAGDADFRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGFPRSTP

MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP

VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE

VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE

MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG

MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG

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The invention relates to a method of detecting the presence of a target CC S198 polynucleotide comprising contacting the test sample with at least CC one CS 198-specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for CC detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to disease and conditions of the CC qI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, CC ulcerative colitis, pancreatitis and Barret's oseophagus. The CS 198 CC polypeptides are useful as standards or reagents in diagnostic CC immunoassays, as components or as target sites for various therapies. CC Antibodies directed against at least one epitope contained within these CC polypeptides are useful as delivery agents for therapeutic agents, in CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used CC polynucleotide is also useful in gene therapy and drug screening. The CS 198 contained of the invention provides an alternative, non-surgical diagnostic method of the invention provides an alternative, non-surgical diagnostic method of the invention gearly stage GI tract disease such as cancer. The present sequence is human CS 198 polypeptide
   Matches
                   Query Match
Best Local :
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N-PSDB; AAD13637.
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Granados EN,
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(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
(ROBE/)
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HODGES S C.
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RUSSELL J C.
STROUPE S D.
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GRANADOS E N.
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FRIEDMAN
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KRATOCHVIL J
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   Conservative
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100.0%; Score 679; I
100.0%; Pred. No. 0;
ive 0; Mismatches
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Kratochvil JD;
                                   Length 679;
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   Gaps
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RESULT 3
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ID ADA2
XX ADA263
AC ADA2
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                                        Billingel PA,
Granados EN,
Roberts-Rapp L
                                                         Billingel
Granados F
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                                                                                                                              (BILL/)
(COHE/)
(COLP/)
(FRE/)
(GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KCAT/)
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30-MAR-1998;
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                  WPI; 2003-596961/56
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                                                                                                BILLINGEL P A.
COHPITTS T L.
COLPITTS T L.
PRIEDMAN P N.
GRANADOS E N.
HAYDEN M A.
HAYDEN M A.
HOGES S C.
KLASS M R.
KRANCHL J D.
RUSSELL J C.
RUSSELL J C.
STROUPE S D.
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Hodges SC,
JC, Stroupe
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    KNAMAERWESRIYASEEDD
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the presence of a target CS198 polynucleotide in a test sample contacting the sample with a CS198 specific polynucleotide and the presence of the target CS198 polynucleotide in the test

67pp;

The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least sof identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the predicted amino acid sequence of the human CS198 protein derived from the CS198 consensus sequence shown in seq id 27.

**°**;

Score 679; Pred. No. 0; Mismatches

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Length 679;

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Gaps

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LEENVVDREQIDFLAARQOFLSLEQANKGAPHSSPARGTPAGTTFGASQAPKAFNKPHLA
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VSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH
                                                                             SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSOASGITGSYS
                                                                                                                                                                                                                                                                PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
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                                                                                                                                                            KQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQK
                                                                                                                                                                                   KQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQK
                                                                                                                                                                                                                                         PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
                                                                                                                                                                                                                                                                                                                          REEDHRREGLHVGRASTPDWVSEGPOPGLRRALSSDSILSPAPDARAADPAPEVRKVNRI
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                                                                                                                                                                                                                                                                                                                                                                                                                              | OBREADLREQRGLROATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ
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KNAMAERWESRIYASEEDD

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RESULT 4
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                                                                      Query Match
Best Local S
Matches 679
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Granados EN,
Roberts-Rapp
                                                                                                                                                                                             The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The prevention agreement is a CS198 protein used to illustrate the method of the
                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                     Claim 17;
                                                                                                                                                                                                                                                                                                                                                                                                        Diagnosing diseases such as cancer of the gastrointestinal tract, b detecting aberrant expression or activity of the CS198 polypeptide, associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (BILL/)
(COHE/)
(COLP/)
(FRE/)
(GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KCAS/)
(ROBE/)
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30-MAR-1998;
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                                                                                                                                                                                 invention.
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NK; D87440.
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COLPITS T L.
COLPITS T L.
FRIEDMAN P N.
GORDON J N.
HAYDEN M A.
HODGES S C.
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STROUPE S D.
                                                                                           Similarity
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KRATOCHVIL J
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                        MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
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 MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
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Conservative
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Hayden MA,
L, Russell
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98US-00050516.
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Hodges SC,
JC, Stroupe
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                                                                    Score 679; D
Pred. No. 0;
Mismatches
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SD;
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Kratochvil
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S
(HINZ/)
(ROSE/)
(PILA/)
(DAHL/)
(SPEC/)
(LICH/)
                                                                                                31-MAR-2004;
                                                                                                                     27-OCT-2004.
                                                                                                                                           EP1471075-A2
                                                                                                                                                                                       pancreas tumor;
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                                                                           31-MAR-2003; 2003DE-01015834
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          HINZMANN B.
ROSENTHAL A
PILARSKY C.
DAHL E.
SPECHT T.
  LICHTNER
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                                                                                                 2004EP-00090124.
                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                       cytostatic
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                                                                                                                                                                                                             human
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Best Local Simi
Matches 679;
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Lichtner R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 692 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleic acid differentially expressed in pancreatic tumor tissue, as diagnostic agents and in screening for therapeutic agents.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 110; 28pp; German.
                                                                                                                                REEDHRREGLHVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRI
                                                                                                                                                                                                                                         NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                                                                                                                                                                NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                                                                                                                                                                                                                                                                   MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
KQEASKPPRGCPQANRGVVRWEYFRLRFLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQK
                                                                   PPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAATSPKATMSPRHLSESSGKPLST
                                                                                                                                                                                               QEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ
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                                                                                                              REEDHRREGLHVGRASTPDWVSEGPQPGLRKALSSDSILSPAPDARAADPAPEVRKVNRI
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19-JUL-2000;
01-SEP-2000;
                                                                                              The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopolesis regulating activity, tissue growth factor activity, immunomodulatory activity and activiny inhibin activity and may be useful in the diagnosis and/or represent the care activity and may be useful in the diagnosis and/or represent.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
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20-OCT-2000;
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27-APR-2000;
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treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the contraction of the contraction 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 20; Page 288; 6221pp; English
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27-APR-2000; 2000US-00560875.
20-UUN-2000; 2000US-00598075.
19-UUL-2000; 2000US-00620325.
01-SEP-2000; 2000US-00654936.
15-SEP-2000; 2000US-00693325.
20-CCT-2000; 2000US-00693325.
30-NOV-2000; 2000US-00728422.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to polynucleotides (AAKS1456-AAKS3435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cycokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the sequence listing were missing at the time of publication
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Ma Y, Zhao QA,
Xue AJ, Yang Y,
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N-PSDB; AAK51723.
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                                                                     SPAPDARAADPAPEVRKVNRIPPDAYQPYLSPGTPQLEFSAFGAFGKPSSLSTAEAKAAT
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  SPKATMSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQ
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                                                                                                                                                                                                                                                                                                                    detecting and screening proliferative insulin-producing cells as well as differentiation and proliferation of such cells and their precursors as analogous cells in treatment of e.g. PHH and diseases due to differentiation/proliferation abnormality, diseases of the nervous system and pancreas. The coding sequences are also useful as spontaneous proliferation models of pancreas beta-cells. The novel genes NC1 NC2 and NC3 were isolated from the pancreas of PHHI patients, which were used in testing for the detection of proliferative insulin-producing cells or pancreas beta-cells by Northern analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pamilial persistent hyperinsulinemic hypoglycemia of infancy (PHHI) patient-expressed genes for detecting and screening e.g. proliferatingulin-producing cells in treatment of PHHI.
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                                                                                                                                                                                                                                                                      Sequence
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                                                                                 HVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLS
  PGTPQLEFSAFGAFGKPS$L$TAEAKAAT$PKATM$PRHL$E$SGKPL$TKQEA$KPPRG
                                                  HVGRASTPDWVSEGPQPGLRRALSSDSILSPAPDARAADPAPEVRKVNRIPPDAYQPYLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NC2;
                                                                                                                                                           38.9%;
llarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PHHI; pancreas
                                                                                                                                                                 0
                                                                                                                                                                                       Score 264; DB 7; Li
Pred. No. 2.3e-259;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3
                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       beta-cell; insulin; antidiabetic;
                                                                                                                                                                                                                   Length 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      679
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                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        proliferative
                                                                                                                                                                 0,
                                                                                                                                                                 Gape
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     490
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465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRFLRFRAPDEPQQAQVPH

Query Match Best Local S Matches 215

Similarity

31.7%; Silarity 100.0%; Conservative 0;

Score 215; DB; Pred. No. 6.9

B 6.9e-210;

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Length 215; Indels

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215;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gastrointestinal tract; GI tract; cancer; disease; detecti
human; predisposition; treatment; Barret's oesophagus; gas
gastritis; leiomyoma; polyps; Crohn's disease; ulcerative
                                          is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barraet's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW79681;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAW79681 standard;
                             gastric ulcer, colitis, and pa
                                                                                                                                                                  Claim 26; Page 103; 127pp; English.
                                                                                                                                                                                            New gastrointestinal polynuclectides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                 Billing-Medel
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                 30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                           08-OCT-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pancreatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human CS198 protein C-terminal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-JAN-1999
  Sequence 215
                                                                                                                           This sequence represents the C-terminal of the human CS198 protein which is used in a method to detect the presence of a target CS198
                                                                                                                                                                                                                                                       WPI; 1998-542714/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO9844159-A1.
                                                                                                                                                                                                                                                                                                                                         (ABBO )
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                                                                                                                                                                                                                                                                                                                                           ABBOTT LAB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HLHSNVAWTVEDPVDSAPPGQRKK 634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CPQANRGVVRWEYERLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HLHSNVAWIVEDPVDSAPPGORKK 634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESVLRREQEVAEERRNALFPEVFSPTPDENSDONSRSSSQASGITGSYSVSESPFFSPI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESVIRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPI
                                                                                                                                                                                                                                                                                 1 PA, Cohen M,
Hayden M, Hodo
L, Russell JC,
  8
                             pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                     97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US006251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein;
                                                                                                                                                                                                                                                                                  M, Colpitts TL, Hodges SC, Klass JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cancer; disease; detection;
Barret's oesophagus; gastric
                                                                                                                                                                                                                                                                                                 Friedman PN, G
MR, Kratochvil
                                                                                                                                                                                                                                                                                                                 Gordon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              610
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The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to disease and conditions of the GI tract such as cancer, gastric ulcer. gastritis Crohm' attacts.
                                                                                                                                       Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                         Billingel PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                               Claim 17; Page 52-53; 68pp; English
                                                                                                                                                                                                                  Roberts-Rapp L,
                                                                                                                                                                                                                                  Granados EN,
                                                                                                                                                                                                                                                                                                                                   (HAYD/)
                                                                                                                                                                                                                                                                                                                                                           (FRIE/)
(GORD/)
(GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                (COLP/
                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CS 198;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human CS 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-NOV-2001
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                                                                                                                                                                                                                                                                                                         (KIAS/)
                                                                                                                                                                                                                                                                                                                                                                                                                         (BILL/)
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                                                                                                                                                                                                                                                                    ROBERTS-RAPP |
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                         HAYDEN M.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
                                                                                                                                                                                                                                                                                                                                                                                                COLPITTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gastrointestinal tract disease; GI tract; cancer;
is; Crohn's disease; ulcerative colitis; pancreati
                                                                                                                                                                                                                                                                                                                                                          GORDON J.
GRANADOS E N.
                                                                                                                                                                                                                                                                                                                                                                                                                         BILLINGEL
                                                                                                                                                                                                                                                                                                                                                                                     FRIEDMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
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                                                                                                                                                                                                                  , Cohen M,
Hayden M,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein C-terminal portion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                   97US-00828855.
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                                                                                                                                                                                                                  Colpitts TL, Friedman
Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₿
                                                                                                                                                                                                                                             Friedman
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                                                                                                                                                                                                                                              PN,
                                                                                                                                                                                                                                 PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 584
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RESULT 11
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ID ADA26384
ID ADA26
AC CS196
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 215; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or respents in diagnostic immunoassays, as components or as target sites for various therapies. Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 polymucleotide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is C-terminal portion of human CS 198 polypeptide
                                                                                                                                                                                                                                                                                                                                                       31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
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                           (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(GORD/)
(GORD/)
(GRAN/)
(HAYD/)
(HAYD/)
(HODG/)
(KLAS/)
(KCAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic peptide based on CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADA26384;
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COLPITTS T L.
FRIEDMAN P N.
GORDON J N.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KLASS M R.
KRATOCHVIL J D
ROBERTS-RAPP L.
RUSSELL J C.
                                                                                                                                                                                                                                                                                                  BILLINGEL P A.
                                                                                                                                                                                                                                                                            COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard; protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYERLRFLRFRAPDEPQQAQVPH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VWGWEVAGAPALRLOKSOSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                       97US-00828855
98US-00050516
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 215;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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RESULT 12
ADN17177
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Query Match
Best Local S
Matches 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention describes a method of detecting the presence of a target CS198 polynuclectide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynuclectide or its complement, and detecting the presence of the target CS198 polynuclectide in the test sample, where the CS198-specific polynuclectide has at least 10% identity to a polynuclectide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 52;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  comprises
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 215 AA;
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                                                                                                                            Gastrointestinal tract;
                                                                                                                                                                                   17-JUN-2004
           22-AUG-2003; 2003US-00646873
                                        04-MAR-2004
                                                                    US2004043406-A1
                                                                                                                                                       CS198 protein
                                                                                                                                                                                                                                           ADN17177 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              525
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                                                                                                                                                                                                                                                                                                                                               DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                                                                                                                                                  VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                         NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the presence of a target CS198 polynucleotide in a test sample contacting the sample with a CS198 specific polynucleotide and the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page
                                                                                                                                                                                                                                                                                                                    DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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Hayden MA,
L, Russell
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                                                                                                                                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           52;
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                                                                                                                                                                                   entry)
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Hodges SC,
JC, Stroupe
                                                                                                                             GI tract; CS198; cancer; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
                                                                                                                                                                                                                                              215 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 215;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6.9e-210;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 6;
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Kratochvil
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RESULT 13
AAG73987
ID AAG73
XX
AC AAG73
XC AAG73
XX
DT 03-SE
XX
XX
DT Human
XX
KW Human

AAG73987

AAG73987 standard;

protein;

172

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03-SEP-2001

(first

entry)

Human; colon

cancer; colon cancer antigen; diagnosis;

detection;

colon

cancer antigen

protein SEQ ID NO:4751

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Best Local S
Matches 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 detecting aberrant expression associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, and
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(COHE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-MAR-1998;
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181
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KRATOCHVIL J D.
ROBERTS-RAPP L.
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
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FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              215
                                                                                                                                                                                                                                      MSPRHLSESSGKFLSTKQEASKPFRGCFQANRGVVRWEYFRLRFLRFRAFDEFQQAQVPH
                                                                                                                                                                                                                                                                                                  MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                  NSRSSQASGITGSYSVSESPFFSPIHLHSNVAWTVBDPVDSAPPGQRKKEQWYAGINPS
  DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                    VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
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Hayden MA,
L, Russell
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98US-00050516.
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Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 215;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                  6.9e-210;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 8;
                                                      679
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 215;
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Kratochvil
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                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                           RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For caxample, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at the olose, 7921 and 7922
                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                               Human; gene expression; single exon probe; microarray; alternative splicing event; genomic alteration.
         16-OCT-2003
                                      US2003194704-A1
                                                                     Homo sapiens
                                                                                                                                              Human genome
                                                                                                                                                                                29-JUL-2004
                                                                                                                                                                                                               ABO60042;
                                                                                                                                                                                                                                          ABO60042 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 11; Page 6550-6551; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-235357/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ruben SM, Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-SEP-2000; 2000WO-US026524.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200122920-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            colorectal carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                                        563 EERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVED 622
                                                                                                                                                                                                                                                                                                                        56
                                                                                                                                                                                                                                                                                                                                                                                      60;
                                                                                                                                                                                                                                                                                                                        EERRNALFPEVFSPTPDENSDONSRSSSOASGITGSYSVSESPFFSPIHLHSNVAWTVED
                                                                                                                                                                                                                                                                                                                                                                                   Conservative 0; Mismatches
                                                                                                                                                derived single exon protein #6276
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ä,
                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99US-0157137P.
99US-0163280P.
                                                                                                                                                                                                                                                                                                                                                                                                                   8.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Birse CE,
                                                                                                                                                                                                                                              43
                                                                                                                                                                                                                                                                                                                                                                                                   Score 60; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rosen CA;
                                                                                                                                                                                                                                                                                                                                                                                   DB 4; Length 172;
5.4e-52;
hes 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                        115
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RESULT 15
AAG75071
ID AAG75
XX
AC AAG75
XX

AAG75071 standard; protein; 57

₹

AAG75071

밁 S

ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW

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The invention relates to a nucleic acid probe for measuring human gene captression, comprising any of the 27,400 fully defined nucleotide concoding at least 8 amino acids of any of the 6888 amino acid sequences (fully defined in the specification, or their complements or fragments, and conditions to a nucleic acid sequences (fully defined in the specification. The probe is a single exon probe that they have the first of the 6888 amino acid sequences (fully defined in human cells or tissues. Also included are a spatially-captressed in human cells or tissues. Also included are a spatially-captressed in human cells or tissues. Also included are a spatially-captressed in human cells or tissues. Also included are a spatially-captressed in human cells or tissues. Also included are a spatially-captressed captressed in human cells or tissues for measuring human cells caid molecule exon nucleic acid molecule captressed expression, a method of measuring human gene expression, a method of contiguous amino acids of any of the above-mentioned amino acid sequences (optionally with conservative amino acid substitutions), an collected above, an ORF-encoded peptide comprising at least 8 contiguous amino acids of any of the above-mentioned amino acid sequences (optionally with conservative amino acid substitutions), an construction of a customer desiring to measure gene expression, a method of providing the storage medium which contains a database having a plurality of records capter excert the probes may be used as tools for surveying captering at least 10 detect the probes may be used as tools for surveying captering at part of the sypressed messages that contain their specific axon, or in constructing genome-derived single exon microarrays. Contains and apparatus are useful in gene expressing the options of the apparatus are sequence is a human considered peptide. The pression of a single exon microarrays. The probes are used in identifying and characterising gross smaller genomic alterations, in priming the synthesis of nucl
                                                                       Best
                                                       Matches
                                                                                               Query Match
                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New human genome-derived single exon nucleic acid probes useful for human gene expression analysis, for identifying or characterizing alternative splicing events, for assessing genomic alterations or as tools for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-APR-2002; 2002US-00029386.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-APR-2002; 2002US-00029386.
                                                                                                                                                                                seqdata.uspto.gov/sequence.html?DocID=20030194704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 45; SEQ ID NO 33676; 80pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             surveying tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-119264/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (PENN/) PENN S G.
(RANK/) RANK D R.
(HANZ/) HANZEL D K.
                                                                         Local
595 ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW 637
                                                       l Similarity
43; Conserv
                                                                                                                                            43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rank DR,
                                                     6.3%;
ilarity 100.0%;
Conservative
                                                                                                                                          8
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                                                                         Score 43;
Pred. No.
                                                       0
                                                       Mismatches
                                                                         DB 8; Lo
                                                                                             Length 43;
                                                       Indels
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03-SEP-2001

(first entry)

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RESULT 16
AAW79677
ID AAW79
XX AAW79
AC AAW79
XX TII-JA
XX DE Synth
XX DE Synth
XX Gasti
KW Dumai
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                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                     example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB; ANH34476.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI, 2001-235357/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         colorectal carcinoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; colon cancer; colon cancer antigen; diagnosis; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human colon cancer antigen protein SEQ ID NO:5835
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 57 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-SEP-2000; 2000WO-US026524.
 Gastrointestinal tract; GI tract; cancer; disease; detection; Chuman; predisposition; treatment; Barret's oesophagus; gastric gastricis; lelomyoma; polyps; Crohn's disease; ulcerative colit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HUMA-) HUMAN GENOME SCI INC
                                                                     Synthetic CS198 derived peptide
                                                                                                      11-JAN-1999
                                                                                                                                                                     AAW79677 standard; protein; 36 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SM,
                                                                                                                                                                                                                                                                                        305 ADLREGRGLROATDHOELVEIPTRPLLTKLSLITAPRR 342
                                                                                                                                                                                                                                                                                                                       38;
                                                                                                                                                                                                                                                         μ
                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                         ADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 7350; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Barash SC,
                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                      (first entry)
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99US-0163280P.
                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Birse CE,
                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                         Score 38;
Pred. No.
                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                       #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rogen
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o. 5.2e-30;
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                                                                                                                                                                                                                                                                                                                                                        Length 57;
                                                                                                                                                                                                                                                          38
                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                           Gaps
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RESULT 17
AAE07320
ID AAE07
XX
AC AAE07
XX
AC AAE07
XX
DT 06-NC
XX
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PR XXX PR XXX PR XXX PR XXX
                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New gastrointestinal polymucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's ossophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynuclocide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Billing-Medel
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pancreatitis
                                                                                                                                                                CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 36 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 26; Page 102; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1998-542714/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAR-1998;
                                                                                                                                                                                                                                             06-NOV-2001
                                                                                                                                                                                                                                                                                              AAE07320 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            colitis,
                                                             30-MAR-1998;
                                                                                                                 US2001010904-A1
                                                                                                                                                                                                                    Human CS 198
                                                                                                                                                                                                                                                                      AAE07320;
                                                                                        02-AUG-2001.
                                                                                                                                         Homo sapiens
(BILL/) BILLINGEL P A. (COHE/) COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                      465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                               36;
                                                                                                                                                                                                                                                                                                                                                              \vdash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABBOTT LAB.
                                                                                                                                                                                                                                                                                                                                                             MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                    peptide
                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hayden M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US006251
                                        97US-00828855
                                                                98US-00050516
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cohen M,
                                                                                                                                                                                                                                                                                              peptide; 36
                                                                                                                                                                                                                                                                                                                                                                                                            5.3%; 5.
100.0%; Pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           M, Colpitts TL,
Hodges SC, Klass
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                             Score 36; Pred. No.
                                                                                                                                                                                                                                                                                                B
                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                             DB 2; L:
3.7e-28;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Friedman PN,
                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gordon J;
                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                      The CS 198 polymuclastides, polypoptides and antibodies are useful for CC detecting, diagnosing, staging, monitoring, prognosticating, preventing, CC treating or determining predisposition to disease and conditions of the CG I tract such as cancer, gastric ulcer, gastritis, Crohn's disease, CC ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic immunoassays, as components or as target sites for various therapies. CC immunoassays, as components or as target sites for various therapies. CC polypeptides are useful as delivery agents for therapeutic agents, in CC polypeptides are useful as delivery agents for therapeutic agents, in CC polypeptides are useful as delivery agents for therapeutic agents, in CC polypeptides are discovered to the cross associated CC with CS 198, particularly cancer. Monoclonal antibodies may also be used CC polymucleotide is also useful in gene therapy and drug screening. The CS 198 polypeptides an alternative, non-surgical diagnostic method of the invention provides an alternative, non-surgical diagnostic contents agents for therapeutic use. The CS 198 polypeptide contains agent heraps and drug screening. The contents agents for the present sequence is a peptide derived from human CS 198 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a method of detecting the presence of a target CS 198 polymucleotide comprising contacting the test sample with at lead one CS 198-specific polymucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (COLP/)
(FRIE/)
(GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KCAT/)
(ROBE/)
                       Synthetic;
                                                        gastrointestinal tract (
                                                                                        CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                         Synthetic peptide
                                                                                                                                                         20-NOV-2003
                                                                                                                                                                                         ADA26380
                                                                                                                                                                                                                      ADA26380 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 36 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 17; Page 51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Granados EN,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001-496163/54.
                                                                                                                                                                                                                                                                                                                                       465
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RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HAYDEN M.
HODGES S C.
KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FRIEDMAN
GORDON J.
GRANADOS
                                                                                                                                                                                                                                                                                                                                                                                      Similarity
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                                                                                                                                                                                                                                                                                                                                       MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                        MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PA,
                                                                                                                                                                                                                                                                                                                                                                     5.3%;
llarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , Cohen M,
Hayden M,
L, Russell
                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PH
ZC
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Z
                                                                                                                         based on
                                                         ; cancer prevention;
disorder; gene ther;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ű,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Colpitts TL, Friedma Hodges SC, Klass MR,
                                                                                                                         CS198 protein #1.
                                                                                                                                                                                                                          36
                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                      Score 36; pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                        gene
                                                         therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Friedman
                                                                                                                                                                                                                                                                                                                                                                                     DB 4; Le
3.7e-28;
                                                                         cancer;
                                                                                                                                                                                                                                                                                                                                                                                                    Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      particularly cancer.
                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      least
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RESULT 19 ADN17173

ADN17173

standard;

peptide;

0

17-JUN-2004 ADN17173

(first entry)

CS198 peptide

#1.

Gastrointestinal tract; GI tract; CS198; cancer; gene therapy.

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                                                  Query Match
Best Local S
Matches 36
                                                                                                                           The invention describes a method of detecting the presence of a target CS198 polynuclectide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynuclectide or its complement, and detecting the presence of the target CS198 polynuclectide in the test sample, where the CS198-specific polynuclectide has at least 50% identity to a polynuclectide having any of the 27 fully defined sequences of 34-889 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                                                                                                                                    Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAR-1997;
30-MAR-1998;
                                                                                                    Sequence 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003082619-A1
                                                                                                                                                                                                                                                                                                                             Claim 17; Page 51; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-596961/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (COHE/)
(COLP/)
(FRIE/)
(GORD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-OCT-2002; 2002US-00278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (RUSS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BILL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ROBE/)
               465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                    36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COHEN M.
COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BILLINGEL P A.
                                                               Similarity
MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                     Æ
                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŗ
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hayden
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97US-00828855.
98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cohen
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ohen M,
yden MA,
Russell
                                                             100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 בי ד
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Colpitts TL,
Hodges SC,
IJC, Stroupe
                                                  0;
                                                               Score 36;
Pred. No.
                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Friedman PN,
                                                                DB 6; Le
                                                    0,
                                                                            Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kratochvil
                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gordon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g;
                                                    0,
                                                     Gaps
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RESULT 20
AAW79679
ID AAW7
XX
AC AAW7
XX
DT 11--
XX
DE Syn
XX
XX
DE Syn
XX
CAB
KW Gas
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                                                                                                                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Billingel PA, Control 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-AUG-2003; 2003US-00646873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US2004043406-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (COLP/)
                     human; predisposition; gastritis; leiomyoma; |
                          Gastrointestinal tract; GI tract; cancer; disease; detection; Chuman; predisposition; treatment; Barret's oesophagus; gastric gastrictis; leiomyoma; polyps; Crohn's disease; ulcerative colit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-313754/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GORD/)
(GRAN/)
(HAYD/)
(HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          associated treatment methods.
                                                                                                                 Synthetic CS198
                                                                                                                                                              11-JAN-1999
                                                                                                                                                                                                         AAW79679
                                                                                                                                                                                                                                                      AAW79679 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (STRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BILL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KLAS/)
                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                             465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                          36,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KLASS M R.
KRATOCHVIL J D.
ROBERTS-RAPP L.
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                     μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GORDON J.
GRANADOS B N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BILLINGEL P A. COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                   MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 43; 67pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , Cohen M,
Hayden MA,
L, Russell
                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98US-00050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-00828855
                                                                                                                    derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5.3%;
100.0%;
                                                                                                                                                                                                                                                   protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Colpitte TL,
Hodges SC,
JC, Stroupe
                                                                                                                 peptide
                                                                                                                                                                                                                                                      35
                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 36;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                                                                                                    #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 8; Le
                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                              colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         មូម
                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                 ulcer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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RESULT 21
AAE07322
ID AAE07
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                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                          Beat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Billing-Medel PA
Granados EN, Ha
Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for pastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's ocsophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New gastrointestinal polynucleotides, CS198, and their of developing products for the diagnosis and treatment gastrointestinal disorders, e.g. cancers, gastric ulcer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
(COLP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 35 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 26; Page 103; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1998-542714/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9844159-A1
                                                                                                                                                                            CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                              31-MAR-1997;
                                                                    30-MAR-1998;
                                                                                             02-AUG-2001.
                                                                                                                  US2001010904-A1.
                                                                                                                                                                 Barret's
                                                                                                                                                                                                                Human
                                                                                                                                                                                                                                       06-NOV-2001
                                                                                                                                                                                                                                                             AAE07322;
                                                                                                                                                                                                                                                                                   AAE07322 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 colitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ABBO ) ABBOTT LAB
                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                            568 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                ည
                                                                                                                                                                                                                                                                                                                                                                                            35,
) BILLINGEL P A.
) COHEN M.
) COLPITTS T L.
                                                                                                                                                                                                                                                                                                                                             1 ALFPEVESPTEDENSDONSRSSSOASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and pancreatitis
                                                                                                                                                                 oesopnagus;
                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                              peptide
                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PA, Cohen M, Colpitts TL,
Hayden M, Hodges SC, Klass
L, Russell JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98WO-US006251
                                                97US-00828855
                                                                    98US-00050516
                                                                                                                                                                                                                                                                                     peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polynucleotides, CS198, and their detection - used
cts for the diagnosis and treatment of
                                                                                                                                                                 gene
                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                 therapy;
                                                                                                                                                                                                                                                                                      35
                                                                                                                                                                                                                                                                                                                                                                                            <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                         Score 35;
Pred. No.
                                                                                                                                                                                                                                                                                      ⋛
                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                         DB 2; Le
3.8e-27;
                                                                                                                                                                   screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Friedman PN, G
                                                                                                                                                                                                                                                                                                                                                                       602
                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                     Length 35;
                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gordon
il JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gastritis.
                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                            SXCCCCCCCCCCCCCCCCXSXTTTTXXXXTHIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a method of detecting the presence of a target CC S198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for CC detecting, diagnosing, staging, monitoring, prognosticating, preventing, cc treating or determining predisposition to disease and conditions of the CG I tract such as cancer, gastric ulcer, gastrictis, Crohn's disease, cu lcerative colitis, pancreatitis and Barret's esosphagus. The CS 198 cc ulcerative colitis, pancreatitis or reagents in diagnostic for immunoassays, as components or as target sites for various therapies. CC immunoassays, as components or as target sites for various therapies. CC diagnostic tests and for screening for conditions or disease associated co with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 colynucleotide is also useful in gene therapy and drug screening. The CC method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is a peptide derived from human CS 198 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity Matches 35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local :
                                                            CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Billingel PA,
US2003082619-A1
                                                                                                                             Synthetic peptide based on
                                                                                                                                                               20-NOV-2003
                                                                                                                                                                                               ADA26382
                                                                                                                                                                                                                             ADA26382 standard; protein; 35
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 35 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         consensus sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 17; Page 52; 68pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (FRIE/)
(GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001-496163/54
                                                                                                                                                                                                                                                                                                                            568 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 602
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RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FRIEDMAN
GORDON J.
GRANADOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KLASS M R.
KRATOCHVIL J
                                                                                                                                                                                                                                                                                                               ALFPEVFSPTPDENSDONSRSSSOASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hayden M,
L, Russell
                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                               5.2%; Fred. No. 100.0%; Pred. No. 100.0%; Mismatches
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Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                                             CS198 protein
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                                                                                                                                                                                                                                                                                                                                                                                           DB 4; Le
3.8e-27;
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                                                                                                                                                                                                                                                                                                                                                                                                          Length 35;
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Kratochvil JD;
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Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                                      The invention describes a method of detecting the presence of a target CS198 polynuclectide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynuclectide or its complement, and detecting the presence of the target CS198 polynuclectide in the test sample, where the CS198-specific polynuclectide has at least 50% identity to a polynuclectide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
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                                     CS198 peptide
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30-MAR-1998;
           Gastrointestinal tract; GI tract; CS198;
                                                              17-JUN-2004
                                                                                                                ADN17175 standard; peptide; 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 17; Page 51; 67pp;
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RUSSELL J C.
STROUPE S D.
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FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
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KRATOCHVIL J
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                                                                                                                                                                               ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                              5.2%; So ilarity 100.0%; I Conservative 0;
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Hayden MA,
                                                              (first entry
                                      #3.
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98US-00050516.
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Hodges SC,
l JC, Stroupe
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                                                                                                                                                                                                                              Score 35; DB 6; 1
Pred. No. 3.8e-27
0; Mismatches 0
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Klass MR,
           cancer; gene therapy.
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                                                                                                                                                                                                                                                        Length 35;
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Kratochvil
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RESULT 24
AAW79678
ID AAW79
XX
AC AAW79
XX
DT 11-JJ
XX
E Syntl
XX
Gast
KW Gast
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Best Local S
Matches 35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The preventing sequence is a CS198 peptide used to illustrate the method of the
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30-MAR-1998;
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                                              Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
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                                                                                                                                            Synthetic CS198
                                                                                                                                                                                             11-JAN-1999
                                                                                                                                                                                                                                                                                        AAW79678 standard; protein; 31
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
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35; Conserv
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FRIEDMAN P N.
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ilarity 100.0%;
Conservative (
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Hayden MA,
L, Russell
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98US-00050516.
                                                                                                                                              derived peptide
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Hodges SC,
JC, Stroupe
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Pred. No.
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SD;
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Kratochvil JD;
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RESULT 25
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     PAR PRACE TO SERVICE T
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Best Local Similarity
Matches 31; Conserv
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Granados EN,
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(BILL/)
(COHE/)
(COLP/)
(FRIE/)
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                                                                                                                                                                                                                                                                                                                                                                                               CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
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                                                                                                                          31-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                        Barret's oesophagus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-NOV-2001
                                                                                                                                                                           30-MAR-1998;
                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26; Page 102; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     μ
) BILLINGEL P A.) COHEN M.
) COLPITTS T L.
) FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RLQKSQSSDLLERERESVLRREQEVAEERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RLOKSOSSDLLERERESVLRREQEVAEERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hayden M, Hodges SC, Klass
, Russell JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00828855
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                                                                                                                             97US-00828855
                                                                                                                                                                           98US-00050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.6%;
                                                                                                                                                                                                                                                                                                                                                                        gene therapy; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ₿
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 2;
4e-23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₹,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Friedman PN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            iman PN, Gordon
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>,,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                ulcer;
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RESULT 26
ADA26381
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a method of detecting the presence of a target CC S198 specific polynucleotide comprising contacting the test sample with at least one CS 198 specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CC The CS 198 specific polynucleotides, polypoptides and antibodies are useful for detecting, diagnosing, staging, monitoring, promosticating, preventing, treating or determining predisposition to diseases and conditions of the CG Itract such as cancer, gastric ulcer, gastritis, Crohn's disease, culcerative colitis, pancreatitis and Barret's oseophagus. The CS 198 pancreatitis and Barret's oseophagus. The CS 198 cc polypeptides are useful as standards or reagents in diagnostic munnoassays, as components or as target sites for various therapies. CC immunoassays, as components or as target sites for various therapies. CC diagnostic tests and for screening for conditions or diseases associated convictors of the generation of chimeric antibodies for therapeutic use. The CS 198 polypucleotide is also useful in gene therapy and drug screening. The CC method capable of detecting early stage GI tract disease such as cancer. The present sequence is a peptide derived from human CS 198 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                        cancer prognosticating; cancer prevention; gastrointestinal tract disorder; gene there
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprise contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
(ROBE/)
               US2003082619-A1
                                            Synthetic;.
                                                                                                     CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                                   Synthetic peptide
                                                                                                                                                                    20-NOV-2003
                                                                                                                                                                                                  ADA26381;
                                                                                                                                                                                                                             ADA26381 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 17; Page 51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GORD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001-496163/54.
                                                                                                                                                                                                                                                                                                                        537 RLOKSOSSDLLERERESVLRREQEVABERRN 567
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                     31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HAYDEN
HODGES
                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GRANADOS
                                                                                                                                                                                                                                                                                                                                                                                                                              Ŗ
                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , Cohen M,
Hayden M,
L, Russell
                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           დ.≍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N
                                                                                                                                      based on CS198
                                                                                                                                                                                                                             protein;
                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                4.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Colpitts TL, Frie
Hodges SC, Klass
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                 Score 31;
                                                                                                                                   protein #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Friedman
                                                                                                                                                                                                                                                                                                                                                                                 DB 4;
4e-23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ₹,
                                                                                        cancer;
                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             comprises
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RESULT 27
ADN17174
ID ADN17
XX ADN17
AC ADN17
XX T1-JU
DT 17-JU
XX CS196
XX Gast1
XX Gast1
XX Unide
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                                                                                                                                                                                                                Ś
                                                                                                                                                                                                                                                                                                              The invention describes a method of detecting the presence of a target CC CS198 polynucleotide in a test sample. The method comprises contacting CC the test sample with at least one CS198 specific polynucleotide or its CC complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198 specific polynucleotide has at least CC soft identity to a polynucleotide having any of the 27 fully defined CC sequences of 34-2894 bp (S1-27) given in the specification, or their CC fragments or complements. The composition and methods are useful in CC diagnosing, staging, monitoring, prognosticating, preventing or treating, CC or determining the predisposition of an individual to, diseases and CC conditions of the gastrointestinal tract, e.g. cancer and in gene CC therapy. This is the amino acid sequence of a synthetic peptide based on CC consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting the presence of a target CS198 polymucleotide in a test sample comprises contacting the sample with a CS198 specific polymucleotide and detecting the presence of the target CS198 polymucleotide in the test
                                                                            17-JUN-2004
                                                                                                    ADN17174;
                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Billingel PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-MAY-2003
  Unidentified
                          Gastrointestinal tract; GI tract; CS198; cancer; gene therapy.
                                                CS198 peptide
                                                                                                                            ADN17174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 17; Page 51; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-596961/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HAYD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (COLP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (KLAS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FRIE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KRAT/)
                                                                                                                                                                                                                    537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COHEN
                                                                                                                                                                                                         RLQKSQSSDLLERERESVLRREQEVAEERRN
                                                                                                                                                                                                                                                                                            2
                                                                                                                            standard;
                                                                                                                                                                                           RLQKSQSSDLLERERESVLRREQEVAEERRN
                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002US-00278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cohen M,
Hayden MA,
                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cohen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97US-00828855.
98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Russell
                                                                                                                           peptide;
                                                                            entry)
                                                                                                                                                                                                                                                      4.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Colpitts TL,
Hodges SC,
1 JC, Stroupe
                                                                                                                                                                                                                                          <u>.</u>
                                                                                                                                                                                                                                                      Score 31;
Pred. No.
                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Friedman PN,
                                                                                                                                                                                                                                                       DB 6;
4e-23;
                                                                                                                                                                                           31
                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                   Length 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kratochvil
                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g,
                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                             Gaps
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RESULT 28
AAW79680
ID AAW79
XX AAW79
AC AAW79
XX 11-JJ
DT 11-JJ
XX Synth
XX Gast
KW humar
KW gast
KW panco
XX P
                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                    S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polymucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polymoptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Billingel PA, Cohen M,
Granados EN, Hayden MA,
Roberts-Rapp L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-AUG-2003,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04-MAR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (COTE/)
(COHE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAR-1998;
                                                                 Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (FRIE/)
(GORD/)
(GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HAYD/)
  Synthetic
                                              pancreatitis.
                                                                                                                                                            Synthetic
                                                                                                                                                                                                      11-JAN-1999
                                                                                                                                                                                                                                                                                               AAW79680 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (KLAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         537
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FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
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ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COHEN M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BILLINGEL P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                        RLQKSQSSDLLERERESVLRREQEVAEERRN 567
                                                                                                                                                                                                                                                                                                                                                                                                            RLQKSQSSDLLERERESVLRREQEVAEERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 44; 67pp;
                                                                                                                                                            CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ₽
K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4.6%;
llarity 100.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2003US-00646873.
                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-00828855.
98US-00050516.
                                                                                                                                                            derived
                                                                                                                                                                                                                                                                                            protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Þ
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Hodges SC, 1
JC, Stroupe
                                                                                                                                                          peptide #4.
                                                                                                                                                                                                                                                                                               ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 31; DB; Pred. No. 4e-
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 English.
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Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 8;
4e-23;
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Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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RESULT 29
AAE07323
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  Query Match
Best Local S
Matches 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New gastrointestinal polynucleotides, CS198, and their detection - us for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Billing-Medel
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 33 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 26; Page 103; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1998-542714/46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9844159-A1
 (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(GORD/)
                                                                                                                                                                                     gastritis; Crohn's disease;
Barret's oesophagus; gene tl
                                                                                                                                                                                               CS 198; gastrointestinal tract disease; GI tract; gastritis; Crohn's disease; ulcerative colitis; pa
                                                                                                                                                                                                                                                           06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   colitis,
                                                                                           30-MAR-1998;
                                                                                                                   02-AUG-2001.
                                                                                                                                                                                                                                    Human CS 198
                                                                                                                                                                                                                                                                                  AAE07323;
                                                                                                                                                                                                                                                                                                         AAE07323 standard;
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                                                                      31-MAR-1997;
                                                                                                                                        US2001010904-A1
                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                         624 VDSAPPGORKKEOWYAGINPSDGINSEVLE 653
                                                                                                                                                                                                                                                                                                                                                                                                               30;
                                                                                                                                                                                                                                                                                                                                                                  4
) BILLINGEL P A.
) COHEN M.
) COLPITTS T L.
) FRIEDMAN P N.
) GORDON J.
                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                VDSAPPGQRKKEQWYAGINPSDGINSEVLE
                                                                                                                                                                                                                                                                                                                                                                                                               ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                    peptide
                                                                                                                                                                                                                                                           (first entry)
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L, Russell JC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US-00828855
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                                                                      97US-00828855
                                                                                            98US-00050516
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en M, Hodges SC, Klass
                                                                                                                                                                                                                                                                                                         peptide;
                                                                                                                                                                                       gene therapy;
                                                                                                                                                                                                                                     #4.
                                                                                                                                                                                                                                                                                                         33
                                                                                                                                                                                                                                                                                                                                                                                                                0;
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Pred. No.
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                                                                                                                                                                                                                                                                                                          ₹
                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                        drug screening; human
                                                                                                                                                                                                                                                                                                                                                                   33
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₹,
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kratochvil
                                                                                                                                                                                                                cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gordon
                                                                                                                                                                                                                gastric ulcer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer.
                                                                                                   CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
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Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KLAS/)
(KRAT/)
(ROBE/)
(RUSS/)
01-MAY-2003
                                 US2003082619-A1
                                                                    Synthetic;.
                                                                                                                                                                           Synthetic peptide based on CS198 protein
                                                                                                                                                                                                                20-NOV-2003
                                                                                                                                                                                                                                                                                 ADA26383 standard; protein; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     consensus sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 17; Page 52; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-496163/54.
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                                                                                                                                                                                                                                                                                                                                                                                                624 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                30;
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KLASS M R.
KRATCH J D.
ROBERTS-RAPP L.
RUSSELL J C.
STROUPE S D.
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                                                                                                                                                                                                                                                                                                                                                                           VDSAPPGQRKKEQWYAGINPSDGINSEVLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    B,
                                                                                                                                                                                                                                                                                                                                                                                                                                            4.4%; Score 30; DB ilarity 100.0%; Pred. No. 4. Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , Cohen M,
Hayden M,
L, Russell
                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 4; Le
4.4e-22;
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ω
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RESULT 31
ADN17176
ID ADN17177
XX ADN17
XX ADN17
XX 17-JU
DT 17-JU
DX CS198
XX Gastr
XX Gastr
XX Unide
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                                                                                                                                                                                                                                                                   Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                             The invention describes a method of detecting the presence of a target CS198 polynuclectide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynuclectide or its complement, and detecting the presence of the target CS198 polynuclectide in the test sample, where the CS198-specific polynuclectide has at least 50% identity to a polynuclectide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Billingel PA,
Granados EN,
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30-MAR-1998;
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                                                                 CS198
                                                                                           17-JUN-2004
                                                                                                                      ADN17176
                                                                                                                                              ADN17176 standard; peptide; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 17; Page 52; 67pp;
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(GORD/)
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                                                                                                                                                                                                                                         624 VDSAPPGORKKEOWYAGINPSDGINSEVLE 653
                                                                 peptide
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FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HOGGES C.
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RUSSELL J C.
STROUPE S D.
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KRATOCHVIL J
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                                                                                                                                                                                                                VDSAPPGORKKEOWYAGINPSDGINSEVLE
                                                                                                                                                                                                                                                                                                                        A
                                                                                                                                                                                                                                                                   Conservative
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L, Russell
                                                                                           (first
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98US-00050516.
                                                                                                                                                                                                                                                                                4.4%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                 Pred. No. 4.4e-22;
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S
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Kratochvil
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Gastrointestinal tract; GI tract; CS198; cancer; gene therapy.

Unidentified

04-MAR-2004 US2004043406-A1.

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Search completed: March Job time: 249.321 secs
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                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 30; Conserv
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Granados EN, Hay
Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                       Sequence 33
                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, and associated treatment methods.
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(COHE/)
(COLP/)
(FRIE/)
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30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 17; SEQ ID NO 46; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
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(STRO/)
                                                                                                                                                                                                                                                                                                                                                                                              invention.
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                                                                                                                                           624 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 653
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHYLI J D.
RUSSELL J C.
RUSSELL J C.
STROUPE S D.
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) COHEN M.
) COLPITTS T L.
) FRIEDMAN P N.
                                                                                                        4 VDSAPPGORKKEOWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                            Conservative
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Hayden MA,
L, Russell
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98US-00050516.
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                    3, 2006, 14:24:32
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                                                                                                                                                                                                                                                      Score 30;
Pred. No.
                                                                                                                                                                                                                            Mismatches
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Coden whole sock en.

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Result
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Maximum
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A; Introns: 594/1; 637/3;
A; Note: F21856_2
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QBIVT2;
13-SEP-2005
NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

TISSUB-Brain, and Colon;

MEDLINE-22388257; PubMed-12477932; DOI=10.1073/pnas.242603899;

MEDLINE-22388257; PubMed-12477932; DOI=10.1073/pnas.24260389;

MEDLINE-22388257; PubMed-12477932; DOI=10.1073/pnas.24260389;

MEDLINE-22388257; PubMed-12477932; DOI=10.1073/pnas.24260389;

MEDLINE-22388257; PubMed-12477932; DOI=10.1073/pnas.24260389;

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and is derived by analysis of the total score distribution.
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SEQUENCE 67
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Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Glibbs R.A.,
Villalon D.K., Melteman M., Madan A., Rodrigues S., Sanchez A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
Schnerch A., Schein J.B., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human
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between the Swiss Institute of Bioinformatics and the EMBL
the European Bioinformatics Institute. There are no restrict
use as long as its content is in no way modified and this stat
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EMBL; BC052236; AAH52236.1; -;
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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
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              SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYS
                                                                    KQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDSPQQAQVPHVWGWEVAGAPALRLQK
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                                                                                                                                                                                                                                                                                                                                                                         Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                      Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
                                                 511 FRAPDEPOQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRRE 558
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GENERAL INFORMATION:
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score greater than or equal to the score of the result being printed,
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679
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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Best Local Similarity
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APPLICATION NUMBER: 08/828,85
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Computer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
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APPLICANT:
APPLICANT:
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SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
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TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
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                                                     241 NGHVVDIKPQVKGVVRBENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA
                                                                                                                           181 LEENVVDREQIDFLAARQQFLSLEQANKGAPHSSPARGTPAGTTPGASQAPKAFNKPHLA
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QEREADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRRERGRPSLYVQRDIVQETQ 360
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                                   NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIERBIRLA
                                                                                                                                                              MKTYRLDAGDADPRRLCDLERERWAVI QGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP
                                                                                                Leenvydreqidflaarqoflsleqankgaphsspargtpagttpgasqapkafnkphla
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STROUPE, STEPHEN D.
STROUPE, REAGENTS AND METHODS USEFUL
AVENTION: POR DETECTING DISEASES OF TI
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KLASS, MICHAEL R.
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Pred. No. 0;
0; Mismatches
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RESULT 2
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Patent No. 6660834
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PAT
             APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                     ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARE: FBACTSCO FOR Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDOLT Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
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HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BILLING-MEDEL, PATRICIA
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TOPOLOGY: linear
MOLECULE TYPE: NO. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO:
US-10-278-547-42
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Sequence 47, Application US/09050516
Patent No. 6627414
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRIC:
APPLICANT: COHEN, MAURICE
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Best Local Similarity
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TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 679; I
ilarity 100.0%; Pred. No. 0;
Conservative 0; Mismatches
                   PATRICIA
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COLPITTS, TRACEY L.

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Best Local (
                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: KRATOCHVI
APPLICANT: ROBERTS-R
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: sin
TOPOLOGY: linear
MOLECULE TYPE: No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.Pl
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 08/8: PILING DATE: 31-MAR-1997 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM:
                                                                                                                                                                                                                                                                    Local Similarity
nes 215; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                    525 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTFDENSDQ 584
181
                                                                121
                                                                                                 585
                                                                                                                                                                                                                                   465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRPRAPDEPQQAQVPH
                             645
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                                                                                                                                                                                                                                                                                                                                                                                                     : 215 amino acids amino acid
                                                                                                NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 644
                                                                                                                                                                                                     MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
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                        DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
                                                                                                                                   VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: POR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                  31.7%; So ilarity 100.0%; F Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                      No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                      single
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                                                                                                                                                                                                                                                                    Score 215; DB 2; L; Pred. No. 2e-204;
                                                                                                                                                                                                                                                                                                   Length 215;
                                                                                                                                                                                                                                                                       Indels
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RESULT 4

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US-10-278-547-47
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; SEQUENCE DESCRIPTION: SEQ ID NO:
US-10-278-547-47
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GENERAL INFORMATION:
                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 215; Conservat
                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM Compatible operating SYSTEM: DOS SOFTWARE: FESTS for Windows CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HODGES, STEVEN C.

KLASS, MICHAEL R.

KRATOCHVIL, JON D.

TITLE OF INVENTION: REAGBRYS AND METHODS USEFUL

FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                     525 VWGWEVAGAPALRLOKSOSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                          465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                            61
                                                                                                                                                         r
NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                      NSRSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                            VWGWEVAGAPALRIQKSQSSDLIERERESVIRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                         MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRPRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/10278547
                                                                                                                                                                                                                                   31.7%; Score 215; DB 2; ilarity 100.0%; Pred. No. 2e-204; Conservative 0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
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                                                                                                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                                             Length 215
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RESULT 5
US-09-050-516-43
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; MOLECULE TYPE:
US-09-050-516-43
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Patent No.
                                                                              Query Match
Best Local 9
                                                             Matches
                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                    CLASSIFICATION:
PRIOR APPLICATION UMBER: 08/828,85
APPLICATION NUMBER: 08/828,85
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/235-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: APPLICANT:
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APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: FABISEQ for Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                          Local Similarity
                                                                                                                                                                        LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM CONTROL OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                                                                                                                                                        TELEFAX: 847/938-2623
                     465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
                                                             36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     I: ROBERTS-RAPP, LISA
I: RUSSELL, JOHN C.
I: STEPHEN D.
INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INVENTION:
MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/09050516
                                                           5.3%; Score 36; DB llarity 100.0%; Pred. No. 6.8 Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COHEN, MAURICE COLPITTS, TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BILLING-MEDEL, PATRICIA
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                                                                                                                                                            linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IBM Compatible SYSTEM: DOS
                                                                                                                                           No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                     08/828,855
                                                                                                                                                                                                                                          43:
                                                                                                                                                                                                                                                                                                                        6065.US.P1
                                                           6.8e-28;
hes 0;
                                                                                             DB 2;
                                                                                         Length 36;
                                                             0;
                                                             Gaps
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RESULT 6

US-09-050-516-45

Sequence 45, Application US/09050516 Patent No. 6627414

GENERAL INFORMATION:

APPLICANT:

BILLING-MEDEL, PATRICIA COHEN, MAURICE

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RESULT 7
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Patent No. 6660834
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATE
                                                                                                                                Matches
                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                          TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 43:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE ADDOLL Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KLASS, MICHAEL R.
KRATOCHVII, JON D.
KRATOCHVII, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                             465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                36;
                                                     1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                    TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                     STRANDEDNESS: single
                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HAYDEN, MARK
HODGES, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COHEN,
                                                                                                                                                  100.0%;
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                                                                                                                                0
                                                                                                                              Score 36; DB 2; L
Pred. No. 6.8e-28;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           6065.US.P1
                                                                                                                                                                    Length 36;
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                                                                                                                                Gaps
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RESULT 8
US-10-278-547-45
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                                                                                                 Sequence 45, Appra-
                                                                                                                                                                                                                                                          Best Local Similarity Matches 35; Conserv
                                                                                       Patent No. 6660834
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                               NEORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: STROUPE, TITLE OF INVENTION: TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
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TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 08/8 FILING DATE: 31-MAR-1997 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOPTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                                                                                                                           568 ALFPEVFSPTPDENSDONSRSSSOASGITGSYSVS 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100 Abbott Park Road
Abbott Park
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KRATOCHVIL, JON D.
ROBERTS-DAGE
                                                                                                                    Application US/10278547
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COLPITTS, TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Abbott Laboratories
       COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                         BILLING-MEDEL, PATRICIA COHEN, MAURICE
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                   5.2%; 5--
100.0%; Pr/
0;
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                                                                                                                                                                                                                                                                          Score 35; pred. No.
                                                                                                                                                                                                                                                          Mismatches . 0;
                                                                                                                                                                                                                                                                          DB 2; Lo
                                                                                                                                                                                                                                                                                        Length 35;
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                                                                                                                                                                                                                                  US-09-050-516-44
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Best Local Similarity
Matches, 35; Conserv
                                                                                                                                                                                                     Patent No.
                                                                                                                                                                                                                  Sequence 44,
                                                                                                                                         APPLICANT:
                                                                                                            APPLICANT:
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TELEX: <Unknown:
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
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APPLICATION UNMBER: US/10/278,547
PILING DATE: 23-Oct-2002
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/ACENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
MOLECULE TYPE: No. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO: 45:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     568 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 ALFPEVESPTPDENSDONSRSSSOASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
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HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
KRATOCHVIL, STEPHEN D.
KRATOCHVIL, STEPHEN D.
KRATOCHVIL, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                   Application US/09050516
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                                                                                                                                                                             GRANADOS, EDWARD N.
                                                                                                                                                                                                                   COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                              BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
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100.0%; Pred. No.
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FOR DETECTING DISEASES OF THE GASTROINTESTINAL

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US-10-278-547-44
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                                                                                                                                                                                                                                                                                                                                          Patent No. 6660834
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                          Sequence 44,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/050,516 FILING DATE:
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CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
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                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                 KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  537 RLQKSQSSDLLERERESVLRREQEVAEERRN 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity 100.0%; Pred. Nv. ...
Similarity 0; Mismatches
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              CITY: Abbott Park
STATE: IL
COUNTRY: USA
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COHEN, MAURICE
                                                                                                                                                                                 HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                        COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                          GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    No. 6627414e
                                                                                                                                                                                                                                          GRANADOS,
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                                                                                                                     TRACT
                                                                                                                                                                                                                                        EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 31; DB 2; 
; Pred. No. 5.3e-2
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US-09-050-516-46
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                            APPLICANT:
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                                                                                                                                                                       TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                    ADDRESSEE: Abbott Laboratories
                                                                                                                                                      NUMBER OF SEQUENCES:
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                                                                   CITY: Abbott Park
STATE: IL
                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CTASCTETCATON TOTAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear
MOLECULE TYPE: No. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO: 44:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       537 RLOKSOSSDLLERERESVLRREQEVAEERRN 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RLOKSOSSDLLERERESVLRREQEVALERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 08/828,855 FILING DATE: 31-MAR-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/09050516
                                                                                                  100 Abbott Park Road
                                                                                                                                                                                      KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                          COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                             COHEN, MAURICE
                                                                                                                                                                                                                                                                                                              HODGES,
                                                                                                                                                                                                                                                                                                                                               GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                  BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                         S, STEVEN C.
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100.0%; Preu....
wismatches
                                                                                                                                                                                                                                                                                                                              MARK
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                                                                                                                                                                                                                                                                                                                                              EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 31; DB 2; Le
; Pred. No. 5.3e-23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3
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US-10-278-547-46
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matchee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No. 6660834
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 46,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/828,859

FILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/09/^^
FILING DATE:
CLASSIPT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
TOPOLOGY: 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                        HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                              CLASSIFICATION: CUMPARTIBLE AVERTAGE CAPERATING SYSTEM DOS SOPTMARE: F881CSQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: CUnknown>
                                                                                                                                                           ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                 PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   624 VDSAPPGORKKEOWYAGINPSDGINSEVLE 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                                                                     ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                                                                  COUNTRY: USA
                                                                                                                                                                                                                                       STATE: IL
                                                                                                                                                                                                                                                      CITY: Abbott Park
APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application US/10278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4.4%; Score 30; DB 2; Lilarity 100.0%; Pred. No. 5.5e-22; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                46:
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                                                                                                                                  US-10-278-547-46
                                                               Matches
                                                                                              Query Match
                                                                                                                                                                                                                                                    TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
                                                               Local Similarity hes 30; Conserv
                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: <Unknown-
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: No. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO: 46:
                          624 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 653
VDSAPPGQRKKEQWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                      TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                           NAME: Becker, Cheryl REGISTRATION NUMBER:
                                                                                                                                                                                                   STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER:
                                                                 ilarity 100.0%; I Conservative 0;
                                                                  4.4%; Score 30; DB
100.0%; Pred. No. 5.
1ve 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                             35,441
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                                                                                    DB 2;
                                                                                                    Length 33;
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Search completed: March 3, 2006, 14:32:04 Job time: 50.1275 secs

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March

2006, 14:45:41; Search time 186.079 Seconds (without alignments)
 1524.651 Million cell updat

protein search, using sw model

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd

Scoring-table; OLIGO Gapop 60.0 ,

Searched:

1867569 seqs, 417829326 residues

Gapext 60.

Sequence: Title: Perfect score:

US-10-646-873-42 679 1 MDRVTRYPILGIPQ

MDRVTRYPILGIPQAHRGTG.....HKNAMAERWESRIYASEEDD

Minimum DB Maximum DB

eq seq

length: 0 length: 2000000000

Total number of hits satisfying

chosen

parameters:

21

20

Post-processing: Listing first 500 summaries

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cell updates/sec
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33676, Ap
33676, Ap
5845, Appl
43, Appl
43, Appl
43, Appl
45, Appl
45, Appl
45, Appl
45, Appl
44, Appl
44, Appl
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                                                                                                                                                                                       Query Match 100.0%; Score 679; [Best Local Similarity 100.0%; Pred. No. 0; Matches 679; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                             TELEX:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/820
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: RUSSELL, APPLICANT: STROUBE, ETITLE OF INVENTION: ITITLE OF INVENTION: TITLE OF INVENTION: UNMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: DOS
SOFTWARE: FASESEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                   LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 847/938-2623
 121
                                                           61 VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE
                                                                                          61
                                                                                                                                            1 MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGFEASGWGQDEPQTWPTDHRAQQG
                                                                                                                        1 MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Abbott Park
                                                                               VQRQGVSYSVHAYTGQPSPRGIHSENREDEGWQVYRIGARDAHQGRPTWALRPEDGEDKE
                     MKTYRLDAGDADPRRLCDLERERWAVIQGQAVRKSSTVATLQGTPDHGDPRTPGPPRSTP 180
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                                                                                                                                                                                                                                                                                                                                 679 amino acids
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HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COLPITTS, TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BILLING-MEDEL,
COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IBM Compatible
                                                                                                                                                                                                                                                                                                   single
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FOR DETECTING I
TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08/828,855
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TING DISEASES OF THE GASTROINTESTINAL
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                                                                                               120
                                                                                                                              60
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Result No.

Score

Match

Length DB

US-09-050-516-47 US-10-278-547-47 US-10-646-873-47 US-10-106-698-4761 US-10-029-386-33676 US-10-106-698-845

Sequence Sequence Sequence Sequence Sequence Sequence

Sequence

US-09-050-516-42 US-10-278-547-42 US-10-646-873-42

Sequence Sequence

Sequence

Description

US-09-050-516-43 US-10-278-547-43 US-10-646-873-43 US-09-050-516-45 US-10-278-547-45 US-10-278-547-45 US-09-050-516-44 US-10-278-547-44

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being pris and is derived by analysis of the total score distribution.

SUMMARIES

Published\_Applications\_AA\_Main:\*

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*

2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*

3: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*

4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*

5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*

6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

ALIGNMENTS

Sequence

Sequence

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RESULT 2
US-10-278-547-42
; Sequence 42, Application
; Publication No. US20030(
; Publication No. US20030(
; Publication No. US20030(
; Publication No. US20030(
) Publication No. US20
               COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.
CURRENT APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-0ct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: BILLING-MEDEL, PATR
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NGHVVPIKPQVKGVVREENKVRAVPTWASVQVVDDPGSLASVESPGTPKETPIEREIRLA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KNAMAERWESRIYASEEDD
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No. US20030082619A1
APPLICATION DATA:
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GORDON, JULIAN GRANADOS, EDWI HAYDEN, MARK
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Best Local Similarity
Matches 679; Conserv
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INFORMATION FOR SEQ ID NO: 42:
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FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECHONE: 847/935-1729
TELECHONE: 847/938-2623
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MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
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                            KNAMABRWESRIYASEEDD
                                                                                                                                VSESPFFSPIHLHSNVAMTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH
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TYPE: amino acid
STRANDEDNESS: single
  KNAMAERWESRIYASEEDD
                                                                                                   VSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRH
                                                                                                                                                                                                    SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYS
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TOPOLOGY: Innear 1 Innear 2 MOLECULE TYPE: NO. US20040043406Ale 3 SEQUENCE DESCRIPTION: SEQ ID NO: 42: US-10-646-873-42
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Publication No. US20040043406A1
GENERAL INFORMATION:
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Best Local Similarity
Matches 679; Conserv
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APPLICATION NUMBER: US/09/050,516
PILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/ACENT INFORMATION:
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MEDIUM TYPE: Diskette
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                     TELEX: <Unknown>
WATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
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121 MKTYRLDAGDADÞRRLCDLERERWAVIQGQAVRKSSTVATLQGTÞDHGDÞRTÞGÞÞRSTÞ 180
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                                                                                                                                      1 MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
                                                          VQRQGVSYSVHAYTGQPSPRGLHSENREDEGWQVYRLGARDAHQGRPTWALRPEDGEDKE 120
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                                                                                                                  MDRVTRYPILGIPQAHRGTGLVLDGDTSYTYHLVCMGPEASGWGQDEPQTWPTDHRAQQG
                                                                                                                                                                                                                                                                                                                                             LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
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SOPTWARE: FastSEQ for Windows Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Abbott Park
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION DATA:
                                                                                                                                                                                          Conservative
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KLASS, MICHAEL R.

KRATOCHVIL, JON D.

INVENTION: REAGENTS AND METHODS USEFUL

FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60064-3500
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                                                                                                                                                                                                           100.0%;
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                                                                                                                                                                                          0
                                                                                                                                                                                          Score 679; DI
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                   DB
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0
                                                                                                                                                                                                                                 Length 679;
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US-09-050-516-47
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Patent No. US20010010904A1
                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                        ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                            TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratori
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                              NUMBER OF SEQUENCES:
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                                                                                                   CITY: Abbott Park
OPERATING SYSTEM:
                                                                       COUNTRY:
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                                                                                                                                                                                                                                                                                                                             COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                          USA
                                                                                                                                                                                                                   ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                            HAYDEN,
                                                                                                                                                                                                                                                                                                                                                                                                      BILLING-MEDEL,
                                                                                                                                                                                                                                                                                                                                                                                        COHEN, MAURICE
             IBM Compatible
                                                                                                                                                                               TRACI
                                                                                                                                                                                            REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                    Laboratories
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RESULT 5
US-10-278-547-47
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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. US20010010904Ale
US-09-050-516-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 47, Application US/10278547 Publication No. US20030082619A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 215; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                         NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ZIP: 60064-3500
COMPUTER READABLE FORM:
                                                                                                                                                                                                                            TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         585 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 644
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                                                       ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                        COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31.7%; Score 215; DB 3; Liarity 100.0%; Pred. No. 9.8e-194; Conservative 0; Mismatches 0;
                                                                                                                                   GRANALY
HAYDEN, MARK
HODGES, STEVEN C.
KCLASS, MICHAEL R.
KCLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                   COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                             GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                GORDON, JULIAN
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TOPOLOGY: linear
MOLECULE TYPE: NO. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 47:
US-10-278-547-47
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-OCt-2002
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 601
TELECOMUNICATION IMPORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                            APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                            HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                   BILLING-MEDEL, PATRICIA
COHEN, MAURICE
                                                                                                                                                                                                                        COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                         GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31.7%; Score 215; DB 4; Lo
100.0%; Pred. No. 9.8e-194;
ative 0; Mismatches 0;
                                                                                                                                                                                                       EDWARD N.
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Length 215; Indels

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Gaps

0

60

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SEQUENCE DESCRIPTION: SEQ ID NO: 47: US-10-646-873-47
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                                                                                                                                                                                                                                                           US-10-106-698-4761
                                                                                                                                                                                                Sequence 4761, Application US/10106698 Publication No. US20030109690A1 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                    APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer
FILE REFERENCE: PA005P1
CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
                   PRIOR APPLICATION NUMBER: US 60/157,137 PRIOR FILING DATE: 1999-09-29
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INFORMATION FOR SEQ ID NO: 47:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/09/050,516
PILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/10/646,873 PILING DATE: 22-Aug-2003 CLASSIFICATION: Unknown>
                                                                                                                                                                                                                                                                                                                                                                     DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                                                                                                                                            NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH 60
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REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 60064-3500
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TYPE: amino acid
STRANDEDNESS: single
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MEDIUM TYPE: Diskette
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US 60/163,280
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                                                                                                                                                          Associated Polynucleotides and Polypeptide
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NUMBER OF SEQ ID NOS
SOFTWARE: PatentIn V
SEQ ID NO 4761
                                                                                                                                                                                                                                        US-10-106-698-5845
                                                                                                                                                                                                                                                           RESULT 9
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Best Local Similarity
Matches 60; Conserv
                                                                                                                                                                      Sequence 5845, Application US/10106698 Publication No. US20030109690A1 GENERAL INFORMATION:
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CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34288
          TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide FILE REFERENCE: PA005P1
CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR PILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/157,137
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APPLICANT: Hanzel, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
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                                                                                                                                                     APPLICANT: Ruben et al.
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OTHER INFORMATION: MAP TO AC004030.1
OTHER INFORMATION: EXPRESSED IN HELA,
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                595 ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW 637
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1999-09-29
                                                                                                                                                                                                                                                                                                                                                                                                      6.3%; Score 43; DB
100.0%; Pred. No. 3e
rative 0; Mismatches
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NUMBER: US 60/163,280

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RESULT 10
US-09-050-516-43
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US-10-106-698-5845
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NUMBER OF SEQ ID NOS: 8564
SOFTWARE: PatentIn Ver. 3.0
SEQ ID NO 5845
LENGTH: 57
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                                                                                                                                                  CLASSIFICATION:
CLASSIFICATION:
PRIOR APPLICATION NUMBER: 08/828,85
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,41
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/235-1729
                                                                                                   INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
COMPUTER: IBM Compat
OPERATING SYSTEM: DO
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                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                             SOPTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: REAGES TITLE OF INVENTION: FOR DITTLE OF INVENTION: TRACT
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                                LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                      TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 60064-3500
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          305 ADLREQRGLRQATDHQELVEIPTRPLLTKLSLITAPRR 342
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100 Abbott Park Road
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RUSSELL, JOHN C.
STROUPE, STEPHEN D.
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single
linear
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                                                                                                                                                                                                                                                                                                                                                                                                     IBM Compatible SYSTEM: DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Diskette
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MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE
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                                                                                                                                                                                                                                                                              08/828,855
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TOPOLOGY: linear in MOLECULE TYPE: No. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 43: US-10-278-547-43
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Query Match
Best Local Similarity
Matches 36; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 43, Application US/102 Publication No. US20030082619A1
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Best Local Similarity
                                                                                                                                                                                                            TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECHONE: 847/938-1729
TELECHONE: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: DOS
SOFTWARE: FRANCSEQ for Windows Version
SOFTWARE: FRANCSEQ for Windows Version
APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
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                                                                                                                                                                        LENGTH: 36 amino acids
TYPE: amino acid
                                                                                                                                                      STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Abbott Park
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/10278547
5.3%; Score 36; DB 4; ilarity 100.0%; Pred. No. 1e-25; Conservative 0; Mismatches
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INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
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1e-25;
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                                    Length 36;
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MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500

465

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TOPOLOGY: linear process of the proc
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                                                                                                                                      Query Match
Best Local Similarity
Matches 36; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX: «Unknown»
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/235-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PactSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
                                                 465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 08/828,855 FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/09/050,516 FILING DATE: 30-MAR-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: <Unknown>
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                                                                                                                                                            5.3%; Score 36; DB 4; Length 36; ilarity 100.0%; Pred. No. 1e-25; Conservative 0; Mismatches 0; Indels
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INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FRIEDMAN, PAULA N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
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US-09-050-516-45
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                                                                                                                  TOPOLOGY: linear

MOLECULE TYPE: No. US20010010904Ale
US-09-050-516-45
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                                                          Matches
                                                                       Query Match
Best Local S
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                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
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                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                             FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
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                                                                                                                                                                                                                                                                                REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
REFERENCE/INFORMATION:
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                                                                                                                                                            LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Abbott Park
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                                                                                                                                                                                                                                                      TELEFAX:
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                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                                                                                                                                                                                                                                  NAME: Becker,
                  568 ALFPEVESPTPDENSDQNSRSSSQASGITGSYSVS 602
                                                          35;
1 ALPPEVESPTPDENSDONSRSSSOASGITGSYSVS
                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
                                                                                                                                                                                                                                                        847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COHEN, MAURICE
                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IBM Compatible
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STEVEN C.
                                                                        5.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                            08/828,855
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                                                          Score 35; DB; Pred. No. 8.8
                                                                                                                                                                                                                                                                                                     6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AND METHODS USEFUL
                                                                           8.8e-25;
                                                                                         DB .3;
                                                              0
                                                                                         Length 35;
                                                              Indels
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                                                              Gaps
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US-10-278-547-45
Sequence 45, Application US/10278547
; Publication No. US20030082619A1
; GENERAL INFORMATION:

APPLICANT:

BILLING-MEDEL, PATRICIA

RESULT 14

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RESULT 15
US-10-646-873-45
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Best Local Similarity
Matches 35; Conserva
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MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 45:
US-10-278-547-45
                                                                                                                                     Sequence 45, Application US/10646873 Publication No. US20040043406A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
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COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION CURROWN>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <UNKNOWN>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                    568 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 602
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                                                                                                                                                                                                                                                                                ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE: IL
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 35 amino acids
                                                                                                                                                                                                                                                                                                                                                     5.2%; Score 35; DB llarity 100.0%; Pred. No. 8.8 Conservative 0; Mismatches
                                                                                                                   BILLING-MEDEL, PATRICIA
GORDON, JULIAN
GRANADOS, EDWARD N.
HAYDEN, MARK
                                                        COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GORDON, JULIAN GRANADOS, EDWAH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TRACT
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                                                                                                                                                                                                                                                                                                                                                                           DB 4; Le
                                                                                                                                                                                                                                                                                                                                                                                               Length 35;
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; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 35 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; POPOLOGY: linear
; MOLECULE TYPE: NO. US20040043406A1e
; SEQUENCE DESCRIPTION: SEQ ID NO: 45:
US-10-646-873-45
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                                                                                                                                                                                                                                                                                                               RESULT 16
US-09-050-516-44
                                                                                                                                                                                                                                                                        Sequence 44, Application US/09050516 Patent No. US20010010904A1
                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: BILLING
APPLICANT: COHEN,
APPLICANT: COLPIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                      APPLICANT:
                                                                             APPLICANT
                                                                                             APPLICANT
                                                                                                                APPLICANT:
                                                                                                                                    APPLICANT
APPLICANT
                                    APPLICANT
                                                         APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                    PPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: -Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HODGES, STEVEN C.

KLASS, MICHAEL R.

KRATOCHVIL, JON D.

TITLE OF INVENTION: REAGENTS AND METHODS USEFUL

FOR DETECTING DISEASES OF THE GASTROINTESTINAL

FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                 568 ALFPEVFSPTPDENSDONSRSSSOASGITGSYSVS 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          35;
                                                                                                                                                                                                                                                                                                                                                                                               ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: IL
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 100 Abbott
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 847/938-2623
                                                    HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
STROUPE, STEPHEN D.
            ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
                                                                                                                                                                                                             COHEN, MAURICE
                                                                                                                                    GRANADOS,
                                                                                                                                                                                                                                    BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5.2%; Score 35; DB 4;
                                                                                                                                    EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8.8e-25;
                                                                                                                                                                                                                                                                                                                                                                                               35
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RESULT 17
US-10-278-547-44
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acids
STRANDEDNESS: single
TOPOLOGY: 1177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 100 Abbott Park Road CITY: Abbott Park Road STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/09/050,516 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Becker, Cheryl
REGISTRATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                     NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                         TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   537 RLOKSOSSDLLERERESVLRREQEVAEERRN 567
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                                                                                                                    HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IBM Compatible
                                                                                                                                                                                                                                                                                                                                                              US20030082619A1
                                                                                                                                                                                                                                COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   No. US20010010904A1e
                                                                                                                                                                                                                                                                                                                               BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.6%;
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                                                                                                      TRACT
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Pred. No. 4.7e-21;
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HOLECULE TYPE: No. US20030082619Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 44:
US-10-278-547-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-646-873-44

Sequence 44, Application US/10646873

Publication No. US20040043406A1

GENERAL INFORMATION:
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6085.US
TELECHONE: 847/935-1729
TELEPHONE: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
                              ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                          TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                     NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          537 RLOKSOSSDLLERERESVLRREQEVABERRN 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: single
                                                                                                                         CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 31 amino acids
OPERATING SYSTEM: DOS
                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ilarity 100.0%; I Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                              HAYDEN, MARK
HODGES, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                    COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                             KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                        GRANADOS,
                                                                                           USA
                   IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.6%; Score 31; DB 4; L
100.0%; Pred. No. 4.7e-21;
                                                                                                                                                                                                                          TRACT
                                                                                                                                                                                                                                                                                                                                                      EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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Length 31; Indels

<u>,</u>

Gaps

0

문 S

Matches

CURRENT APPLICATION DATA:

SOFTWARE: FastSEQ for Windows Version 2.0

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Patent No. US20010010904A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                             COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOCTWARE: Fast-SEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                           TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                        STREET:
                                                                                                                                                                          CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: No. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 44:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 09/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 31 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                           KRATOCHVIL, JON D.

ROBERTS-RAPP, LISA
ROBERTS-JOHN C.
STROUPE; STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                   HODGES,
                                                                                                                                                                                                                                                                                                                                                                                                                     HAYDEN, MARK
                                                                                                                                                                                                                                                                                                                                                                                  MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4.6%; Score 31; DB 4;
100.0%; Pred. No. 4.7e-2:
tive 0; Mismatches
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US/09/050,516
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US-10-278-547-46
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 46, Application US/10278547 Publication No. US20030082619A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS LENGTH: 33 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: No. US20010010904A1e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 31-MAR-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
TOPOLOGY: lir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Becker,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 847/938-2623
                                                                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
                                                   CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US/09/050,516
FILING DATE: <Unknown>
                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
APPLICATION NUMBER: 08/828,855 FILING DATE: 31-MAR-1997 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          624 VDSAPPGORKKEOWYAGINPSDGINSEVLE 653
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                                                                                                                                                                                                                                                                                                                     STATE: IL
                                                                                                                                                                                                                                                                                                                                   STREET: 100 Abbot
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                  COUNTRY: USA
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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GRANADOS, EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-MAR-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                             FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46:
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Pred. No.
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. 4.3e-20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 21
US-10-646-873-46
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Best Local Similarity 100.0%; Pred. No. 4.3e-20;
Matches 30; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 46, Application US/10646873 Publication No. US20040043406A1
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INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
CURRENT APPLICATION NUMBER: US/10/646,873

APPLICATION NUMBER: US/10/646,873

FILING DATE: 22-Aug-2003

CLASSIFICATION DATA:

APPLICATION DATA:

APPLICATION NUMBER: US/09/050,516

FILING DATE: 30-MAR-1998

APPLICATION NUMBER: 08/828,855

FILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 35.441

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   624 VDSAPPGQRKXEQWYAGINPSDGINSEVLE 653
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TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BILLING-MEDEL, PATRICIA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
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INFORMATION FOR SEQ ID NO: 46:

SEQUENCE CHARACTERISTICS:

LENGTH: 33 amino acids
TYPE: anino acids
TYPE: anino acids
TYPE: anino acid
STRÂNDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: NO. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-10-646-873-46

Query Match
Best Local Similarity 100.0%; Fred. No. 4.3e-20;
Best Local Similarity 100.0%; Fred. No. 4.3e-20;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps
Matches 30; Conservative 10; Mismatches 0; Indels 0; Gaps
Matches 30; VDSAPPGORKKEOWYAGINSEVLE 653

Qy 624 VDSAPPGORKKEOWYAGINSEVLE 653
US-10-646-873-46
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<u>,</u>

Search completed: March 3, 2006, 14:50:28 Job time: 187.079 secs

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Title:
Perfect score:
Sequence:
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No.
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Maximum DB seq length: 2000000000
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Search completed: March 3, 2006, 14:50:59 Job time: 18.9877 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Listing first 500 summaries
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                                                                                                      No matches found
                                                                                                                                                                                                                                                                                                       Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed; and is derived by analysis of the total score distribution.
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Score Match Length DB ID
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1: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*
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679
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                                                                                           Searched:
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                                                                                      A Geneseq_21:*
1: geneseqp1980
2: geneseqp1990
3: geneseqp2000
4: geneseqp20001
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Gapop 10.0 , Gapext 0.5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
geneseqp20008:*
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geneseqp20048:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result<br>No.<br>1<br>2<br>3 | Score<br>189<br>189<br>189<br>189 |       | Length 36 36 36 36 215 | พดดะพ | ID AAW79677 AAE07320 ADAC6380 ADN17173 AAW79681 |
|------------------------------|-----------------------------------|-------|------------------------|-------|---|
|                              | 189<br>189                        |       | 366                    | 4     | AAE07320  |
| w                            | 189                               |       | 36                     | 6     | ADA26380  |
| 4.                           | 189                               |       | 36,                    | °.    | ADN17173  |
| <sub>U</sub>                 | 189                               |       | 215                    | N     | AAW79681  |
| o                            | 189                               | •     | 215                    | 4     | AAE07324  |
| 7                            | 189                               | 100.0 | 215                    | σ     | ADA26384  |
| œ                            | 189                               | 100.0 | 215                    | 8     | ADN17177  |
| 9                            | 189                               | 100.0 | 672                    | 4     | AAM79574  |
| 10                           | 189                               | 100.0 | 679                    | N     | AAW79676  |
| 11                           | 189                               | 100.0 | 6.79                   | 4     | AAE07319  |
| 12                           | 189                               | 100.0 | 679                    | 4     | AAM78590  |
| 13                           | 189                               | 100.0 | 679                    | 6     | ADA26379  |
| 14                           | 189                               | 100.0 | 679                    | 7     | ADG14341  |
| 15                           | 189                               | 100.0 | 679                    | 8     | ADN17172  |
| 16                           | 189                               | 100.0 | 692                    | 8     | ADX97562  |
| 17                           | 63                                | 33.3  | 926                    | ഗ     | ABP43837  |
| 18                           | 63                                | 33.3  | 926                    | 7     | ADN95113  |
| 19                           | 58                                | 30.7  | 162                    | æ     | ADX79541  |
| 20                           | 82                                | 30.7  | 453                    | w     | AAB29623  |
| 21                           | 58                                | 30.7  | 453                    | ហ     | AAE24069  |
| 22                           | 82                                | 30.7  | 1219                   | 4     | ABB65388  |
| 23                           | 57                                |       | 93                     | ,     |   |
| :                            |                                   |       |                        | U     | ABP06654  |

| 4.        | 44        | د         | 42       | 41        | 40       | 39        | 38       | 37        | 36        | ω<br>S    | 34        | 33        | 32        | 3         | 30        | 29        | 28        | 27        | 26         | 25         |   |
|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|---|
| 55        | 55        | 55        | 55       | 55        | 55       | 55        | 55       | 55        | 55        | 55        | 55        | 55        | 55        | 55.5      | 55.5      | 56        | 56        | . 56      | 57         | 57         |   |
| 29.1      | 29.1      | 29.1      | 29.1     | 29.1      | 29.1     | 29.1      | 29.1     | 29.1      | 29.1      | 29.1      | 29.1      | 29.1      | 29.1      | S         | 29.4      | 29.6      | 29.6      | 29.6      | 30.2       | 30.2       |   |
| 387       | 384       | 374       | 369      | 369       | 369      | 369       | 333      | 322       | 319       | 294       | 268       | 115       | 112       | 1036      | 111       | 1543      | 1520      | 1416      | 488        | 488        |   |
| w i       | w         | æ         | 8        | 00        | 7        | σ         | w        | w         | w         | 4         | ω         | w         | 4         | 9         | ហ         | 9         | σ         | 4.        | 7          | 7          |   |
| AAG49848  | AAG19453  | ADT60504  | ADO01717 | ADI43795  | ADD31039 | ADA15601  | AAG49853 | AAG49849  | AAG19454  | ABG15476  | AAG49854  | AAG45467  | AAB95016  | ABM95019  | ABP64335  | AEB53773  | AAE30107  | ABB66066  | ADL12082   | ADG73027   |   |
|           | Aag19453  |           | _        | _         | _        |           | -        | _         |           |           | 40        |           |           |           | -         |           | ' `       |           |            | ′ `        |   |
| Arabidops | Arabidops | Plant pol | n        | Plant tra |          | A. challa | 20       | Arabidops | Arabidops | Novel hum | Arabidops | Arabidops | Human pro | M. xanchu | Human Okr | Trudosoru | TINGOROZU | DIOBODILL | Paeudollon | Paeddollon | ) |

## ALIGNMENTS

RESULT 1 AAW79677 Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis; pancreatitis. AAW79677 standard; protein; 36 AA. Synthetic CS198 derived peptide #1. 11-JAN-1999 AAW79677; 30-MAR-1998; 08-OCT-1998. Synthetic. WO9844159-A1 (first entry) 98WO-US006251.

31-MAR-1997; 97US-00828855.

(ABBO ) ABBOTT LAB

Billing-Medel PA, Granados EN, Hay Roberts-Rapp ŗ PA, Cohen M, Colpitts TL, Friedman PN, Gordon J; Hayden M, Hodges SC, Klass MR, Kratochvil JD; L, Russell JC, Stroupe SD;

WPI; 1998-542714/46.

New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.

Claim 26; Page 102; 127pp; English.

AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastroidtestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer,

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RESULT 2
AAE07320
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                       Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 36 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      colitis, and pancreatitis
                                                                                                                                  Claim 17;
                                                                                                                                                                                                         WPI; 2001-496163/54.
                                                                                                                                                                                                                              Roberts-Rapp
                                                                                                                                                                                                                                           Granados
                                                                                                                                                                                                                                                   Billingel
                                                                                                                                                                                                                                                                                                                          (HAYD/)
(HODG/)
(KLAS/)
                                                                                                                                                                                                                                                                                                                                                                                                  (COLP/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human CS 198
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                                                                                                                                                                                                                                                                                                                                                                           (FRIE/)
                                                                                                                                                                                                                                                                               (STRO/)
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ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                     HAYDEN M.
HODGES S C.
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GORDON J.
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                                                                                                                                                                                                                                                                                                                                                                 GRANADOS
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                                                                                                                                  Page 51; 68pp;
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                                                                                                                                                                                                                             , Cohen M,
Hayden M,
L, Russell
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                                                                                                                                  English.
                                                                                                                                                                                                                              Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         36
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Pred. No. 6.1e-18;
); Mismatches 0;
                                                                                                                                                                                                                                                      Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          36
                                                                                                                                                                                                                                           PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 36;
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                immunoassays, as components or as target sites for various therapies. Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 polynucleotide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is a peptide derived from human CS 198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic peptide based
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-NOV-2003
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                                                                                                                                                                                                   Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                       (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(FRIE/)
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(GRAN/)
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30-MAR-1998;
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                                                                                                                                                                              Roberts-Rapp
                                                                                                                                                                                                                                                                       (RUSS/)
                                                                                                                                                                                                                                                                                                                                      (KRAT/
                                                                                                                                                                                                                                                                                                                                                             (KLAS,
                                                                                                                                                                                                                                                                                                                                                                                    (HODG/)
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KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S. D.
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
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FRIEDMAN P N.
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L, Russell
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98US-00050516
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Hodges SC,
JC, Stroupe
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Pred. No. 6.1
0; Mismatches
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                                                                                                                                                                              Klass
SD;
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Klass MR,
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Kratochvil
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detecting the presence of

Detecting the WPI; 2003-596961/56

comprises

the presence of a target CS198 polynucleotide in a test sam contacting the sample with a CS198 specific polynucleotide the presence of the target CS198 polynucleotide in the test

Claim

Page

67pp;

English

invention 17;

describes 51;

a method of detecting the presence of a target a test sample. The method comprises contacting

•

CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in

diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.

१

Query Match Best Local S Matches 36

Local Similarity

100.0%;

Score 189; DB 6; Pred. No. 6.1e-18;

Length Indels

36

36;

Conservative

0;

Mismatches

0

<u>.</u>

Gaps

<u>.</u>

Sequence 36

B

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MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36

36

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RESULT 4
ADN17173
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                                                                                                                                                                                                                                   Gastrointestinal tract;
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                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                                                                                              17-JUN-2004
                                                                                                                                                                                                                                                                                         ADN17173 standard; peptide; 36 AA.
                                                                                                                                                                              22-AUG-2003; 2003US-00646873
                                                                                                                                                                                                                                                CS198 peptide
                                                                                                                                                                                                                                                                            ADN17173
Diagnosing diseases
detecting aberrant e
                    WPI; 2004-313754/29
                                Roberts-Rapp
                                               Billingel PA,
                                                                  (ROBE/)
                                                                                (KILAS/)
                                                                                                           (GORD/)
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                                                                                                                                                         30-MAR-1998;
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                                                                                                    HAYD/)
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                                                                                             GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                      COLPITS T L. FRIEDMAN P N.
                                                                    KLASS M R.
KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
                                                                                                                                            BILLINGEL P A.
                                                             STROUPE
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                                        Cohen M,
Hayden MA,
                                                                                                                                                         97US-00828855
98US-00050516
                                                            8 G.C.
                                  Russell
s such as cancer of the expression or activity
                                                                                                                                                                                                                                                               entry)
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                                  'n
                                        Colpitts TL
Hodges SC,
                                 Stroupe
                                               Į,
                                        Friedman
Klass MR,
                                   SD;
gastrointestinal tract, b of the CS198 polypeptide,
                                         PN, Gordon
Kratochvil
                                         g,
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and

gastric ulcer,

and pancreatitis

leiomyoma,

polyps, Crohn's

disease,

This sequence represents the C-terminal of the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus,

New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.

WPI;

1998-542714/46.

Claim

Page 103;

127pp;

English. .

Billing-Medel PA, Granados EN, Hayo

PA, Cohen Hayden M,

, Cohen M, Colpitts TL, yden M, Hodges SC, Klass Russell JC, Stroupe SD;

MR, Kratoch

Kratochvil JD;

Gordon

(ABBO ) ABBOTT LAB

97US-00828855 98WO-US006251.

Roberts-Rapp L,

30-MAR-1998;

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RESULT 5
AAW79681
ID AAW7
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XXXXX
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Best Local S
Matches 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                             human; predisposition; treatment; Barı gastritis; leiomyoma; polyps; Crohn's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 36 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     associated treatment methods
                                                                                                                                                                                                                                                                                                                                                                                                         Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer
                                                                                                                                                                                                                                                                                                                                                                                                                                         Human CS198 protein C-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAW79681;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAW79681 standard;
                                                                                                                                                                                                                                                                                                                  08-OCT-1998
                                                                                                                                                                                                                                                                                                                                        WO9844159-A1
                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                  pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention relates to reagents and methods for detecting diseases of gastrointestinal (\mathsf{GI}) tract. The method involves detecting the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               l Similarity
36; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ID NO 43; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 189; DB 8;
Pred. No. 6.1e-18;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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RESULT 6
AAE07324
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
         The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or respents in diagnostic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                 Claim 17; Page 52-53;
                                                                                                                                                                       contacting test
                                                                                                                                                                                    Detecting the detecting or d
                                                                                                                                                                                                                           WPI; 2001-496163/54.
                                                                                                                                                                                                                                                 Roberts-Rapp L,
                                                                                                                                                                                                                                                               Granados EN,
                                                                                                                                                                                                                                                                        Billingel PA,
                                                                                                                                                                                                                                                                                                                                                               (HAYD/
                                                                                                                                                                                                                                                                                                                                                                                                (COHE/)
(COLP/)
(FRIE/)
(GORD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2001010904-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human CS 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAE07324;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAE07324 standard; protein; 215
                                                                                                                                                                                                                                                                                                                                      (KLAS/
                                                                                                                                                                                                                                                                                                                            (ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          36;
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                                                                                                                                                                                                                                                                                                  KRATOCHVIL J D.
ROBERTS-RAPP L.
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                     GORDON J.
GRANADOS E N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                             FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                              HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                          COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                      KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                     KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                       e presence of target CS 198 polynucleotide, useful for diagnosing diseases of the gastrointestinal tract, comprise est sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                 Hayden M,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein C-terminal portion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                               68pp;
                                                                                                                                                                                                                                                 Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
 or as target sites for various
                                                                                                                                                 English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 189; DB 2;
Pred. No. 4.4e-17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                               PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
 therapies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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                                                                                                                                                                                       comprises
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Claim

52;

Page 52;

English

Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test

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8888888888888888
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 polymucleotide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is C-terminal portion of human CS 198 polypeptide
                                                                                                               Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                       cancer prognosticating; cancer prevention; can gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic peptide based on CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADA26384 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                    (COHE/)
(COLP/)
(FRIE/)
(GORD/)
(GRAN/)
                                                                                                                                                                                                                                                                                                   31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                             01-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                 US2003082619-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                           CS198; cancer diagnosis; cancer staging; cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-NOV-2003
                                                                                                                                                                                               (HAYD/)
                                                                                                                                                                                                                                                                                           30-MAR-1998;
                                                                                                                                                                                                                                                                                                                       23-OCT-2002; 2002US-00278547.
                                                                                  WPI; 2003-596961/56.
                                                                                                    Roberts-Rapp
                                                                                                                                                        (RUSS/)
                                                                                                                                                                                                                                                                      (PILL/)
                                                                                                                                                                  ROBE/)
                                                                                                                                                                            KRAT/)
                                                                                                                                                                                      KLAS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       36;
                                                                                                                                                                                             COLPITIS T L.
FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                                                            ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                           KLASS M R.
KRATOCHVIL J
                                                                                                                                                                                                                                                                    BILLINGEL P A.
                                                                                                                                                                                                                                                             COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             215 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                    ŗ
                                                                                                    , Cohen M,
Hayden MA,
L, Russell
                                                                                                                                                                                                                                                                                           97US-00828855.
98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
                                                                                                                                                                 ro
                                                                                                    Colpitts TL,
Hodges SC,
L JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 189; DB 4;
Pred. No. 4.4e-17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                protein
                                                                                                     Klass
SD;
                                                                                                                          Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                 #5.
                                                                                                                                                                                                                                                                                                                                                                                                                   cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               36
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                                                                                                                           PN,
                                                                                                                                                                                                                                                                                                                                                                                                                            monitoring;
                                                                                                                N, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 215;
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                                                                                                                g.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                              Billingel PA,
Granados EN,
Roberts-Rapp I
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30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                        04-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                          Gastrointestinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                  CS198 protein
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                                                                                                                                                                                                                                                                                                                                22-AUG-2003; 2003US-00646873
                                                                                                                                                                                                                                                                                                                                                                               US2004043406-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-JUN-2004
           Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, and associated treatment methods.
                                                                                                                                                               (HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
                                                                                                                                                                                                             (GORD/)
                                                          WPI, 2004-313754/29
                                                                                                                                                                                                                                                (COTE/)
                                                                                                                                                                                                                                                                       BILL/)
                                                                                                                                                                                                                                      PRIE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                36;
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                                                                                                                            ROBERTS-RAPP RUSSELL J C. STROUPE S D.
                                                                                                                                                                                     GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                  COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                KLASS M R.
KRATOCHVIL J
                                                                                                                                                                                                                                                                        BILLINGEL P A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                               Hayden MA,
L, Russell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                              97US-00828855.
98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                               tract;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein; 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                      ۲.
                                                                                                                                                                                                                                                                                                                                                                                                                               GI tract;
                                                                               Colpitts TL,
Hodges SC,
L JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 189; DB 6;
Pred. No. 4.4e-17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ₹
                                                                                                                                                                                                                                                                                                                                                                                                                               CS198; cancer; gene therapy.
                                                                                Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                             PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
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RESULT 9
AAM/1957
ID AAM/19
AC Huma
AC Huma
AC AC AAM/19
AC AAM/19
AC Huma
AC AC AAM/19
AC AC AA
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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27-APR-2000; 2000US-00560875.
20-JUN-2000; 2000US-00598075.
19-JUL-2000; 2000US-00620325.
01-SEP-2000; 2000US-00634936.
15-SEP-2000; 2000US-0063325.
20-CCT-2000; 2000US-00633325.
30-NOV-2000; 2000US-00728422.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                   Tang
Ma Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human protein SEQ ID NO 3220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAM79574;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAM79574 standard; protein; 672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 17; SEQ
                                                                                                                                                                                                                                              WPI; 2001-476283/51.
N-PSDB; AAK52707.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-FEB-2001; 2001WO-US004098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200157190-A2
                                                                                                                                                                     Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
                                                                                                                                                                                                                                                                                                                            Xue AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                           (HYSE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                      Y, Zhao QA, Y, Zhao QA, Y, Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                           HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     215 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                         Wang D, W
Wejhrman
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                                                                                                                                                                                                                                                                                                                            Drmanac RT,
Wang D, Wang
Wejhrman T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 189; DB 8;
Pred. No. 4.4e-17;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                            Asundi V, Zh
g J, Zhang J,
Goodrich R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B
                                                                                                                                                                                                                                                                                                                                                Zhou P, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 215;
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                                                                                                                                                                                                                                                                                                                                                        Chen
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                                                                                                                                                                                                                                                                                                                                                        Y;
Wang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                             ZW;
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The invention relates to polynucleotides (AAK51456-AAK53435) and encoded polypeptides (AAM78323-AAM80302) that exhibit activity electrocytokine, cell proliferation or cell differentiation or which may

(AAK51456-AAK53435) and the

elating

ating to induce

cytokine,

production

Claim

20;

Page 288; 6221pp; English

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ARESULT 10
AAW79676
ID AAW79676
ID AAW79676
AC AAW796
AC AAW796
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gastrointestinal tract; GI tract; cancer; disease; detection; CS19 human; predisposition; treatment; Barret's oesophagus; gastric ulc gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                      diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, lelomyoma, polyps, Crohn's disease, ulcerative colitis, and
                                                                                                                                                                                                                      This sequence represents the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a te sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting,
                                                                                                                                                                                                                                                                                                                                                                                                                                                  New gastrointestinal polynucleotides, CS1: for developing products for the diagnosis gastrointestinal disorders, e.g. cancers,
                                                               gastritis, l
pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Billing-Medel PA,
                                                                                                                                                                                                                                                                                                                                                                                      Claim 26; Page 100-102; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-OCT-1998.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAW79676 standard; protein; 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 672 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1998-542714/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAR-1998;
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L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LAB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97US-00828855
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          M, Colpitts TL, Frie
Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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Pred. No. 1.5e-16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  CS198, and their detection - us osis and treatment of ers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Friedman PN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kratochvil JD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gordon J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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                                                                                                                                                                                                                                                                                        test
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Query Match

100.0%;

Score 189;

B

2

Length 679;

The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic

The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198 specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer.

Sequence 679 AA;

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ARESULT 11
AREOTA19
IID AREOTA
XX AREOTA
XX DT O6-NC
XX CS 15
XX GS Human
XX GS Homo
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                                                                                                                                                                                                                                                                                                Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprise contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-496163/54.
N-PSDB; AAD13637.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Billingel PA, Cohen M, Granados EN, Hayden M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CS 198; gastrointestinal tract disease; GI tract; cancer; gas
gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human CS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-NOV-2001
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                                                                                                                                                                                                                                                        Claim 17; Page 49-51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (COHE/)
(COLP/)
(FRIE/)
(GORD/)
(GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (KLAS/)
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RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GORDON J.
GRANADOS E N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COHEN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "Encoded by CGGN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; **
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene therapy; drug screening; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.6e-16;
hes 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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RESULT 12

AAM78590
ID AAM78

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-FEB-2000; 2000US-00496914.
27-APR-2000; 2000US-00560875.
20-JUN-2000; 2000US-00598075.
19-JUL-2000; 2000US-00620325.
01-SEP-2000; 2000US-0063936.
15-SEP-2000; 2000US-00693325.
20-OCT-2000; 2000US-00693325.
30-NOV-2000; 2000US-00728422.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        immunoassays, as components or as target sites for various therapies. Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 polymucleotide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is human CS 198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.
The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-FEB-2001; 2001WO-US004098
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human protein SEQ ID NO 1252.
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                                                                                                                                                                                                                 Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
                                                                                                                                                                     Claim 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HYSE-)
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                                                                                                                                                                                                                                                                                                                                                                        Y, Zhao QA, 1
AJ, Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                3
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                                                                                                                                                                  Page 3512-3514; 6221pp; English
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larity 100.0%;
Conservative C
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QA, Wang D, W
g Y, Wejhrman'
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Wang
n T,
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Pred. No. 1.6e-16;
                                                                                                                                                                                                                                                                                                                                                                              Asundi V, Zho
J J, Zhang J,
Goodrich R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Zhou
                                                                                                                                                                                                                                                                                                                                                                                                            Ren
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R,
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RESULT 13
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TX BX SX SX SX BX D
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activin/inhibin activity and may be useful in the diagnosis and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the
                                                     comprises
detecting
                                                                                                                                                                                                                                                                                                                                     31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               gastrointestinal tract disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADA26379;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 679 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence listing were missing at the time of publication
                                                                                                                                    Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                     (COTE/)
(COHE/)
                                                                                                                                                                                                                                                                                                                                                                       23-OCT-2002;
                                                                                                                                                                                                                                                                                                                                                                                             01-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                   US2003082619-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Predicted amino acid sequence of the CS198 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-NOV-2003
                                                                             Detecting
                                                                                                    WPI; 2003-596961/56.
                                                                                                                        Roberts-Rapp L,
                                                                                                                                                                                                                   (KLAS,
                                                                                                                                                                                                                               (HODG)
                                                                                                                                                                                                                                                      GRAN,
                                                                                                                                                                                                                                                                           (FRIE/)
                                                                                                                                                                                                         KRAT/
                                                                                                                                                                                                                                          HAYD/
                                                                                                                                                                                                                                                                 GORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
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                                                                                                                                                                    KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          prognosticating;
                                                                                                                                                                                                                            COHEN M.
COLPITTS T L.
FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                              BILLINGEL P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; protein;
                                                     the presence of a target CS198 polynucleotide in a test sample contacting the sample with a CS198 specific polynucleotide and the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                      2002US-00278547
                                                                                                                          , Cohen M,
Hayden MA,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                    97US-00828855.
98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cancer prevention; cancer;
                                                                                                                        Colpitts TL,
Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 189; DB 4;
Pred. No. 1.6e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene therapy.
                                                                                                                           Klass
SD;
                                                                                                                                      Friedman
Klass MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 36
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                                                                                                                                        PN, Gordon J;
Kratochvil JD
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The invention

describes a method of detecting the presence

of a

17;

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49-50; 67pp; English

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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the predicted amino acid sequence of the human CS198 protein derived from the CS198 consensus sequence shown in seq id 27.
                                                                     coding sequences (ADG14340-ADG14345). The coding sequences are useful for detecting and screening proliferative insulin-producing cells as well as differentiation and proliferation of such cells and their precursors as analogous cells in treatment of e.g. PHHI and diseases due to differentiation/proliferation abnormality, diseases of the nervous system and pancreas. The coding sequences are also useful as spontaneous proliferation models of pancreas beta-cells. The novel genes NC1, NC2 and NC3 were isolated from the pancreas of PHHI patients, which were used in testing for the detection of proliferative insulin-producing cells or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-MAR-2003; 2003WO-JP002620.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neuroprotective.
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                                                                                                                                                                                                                                                                                             Claim 1; SEQ ID NO 2;
                                                                                                                                                                                                                                                                                                                                patient-expressed genes for detecting and scrinsulin-producing cells in treatment of PHHI.
                                                                                                                                                                                                                                                                                                                                                        Familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI)
patient-expressed genes for detecting and screening e.g. proliferat
                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-767524/72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Niwa H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-MAR-2002; 2002JP-00071592.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; NC1; NC2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human NC2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADG14341;
                                                         pancreas beta-cells by Northern analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (KANF )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003078631-A1
                                                                                                                                                                                                                                                    present invention relates to human NC1, NC2 and NC3 proteins and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 465
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KANEKA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Yamashita K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
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A
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                                                                                                                                                                                                                                                                                         34pp; Japanese.
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Pred. No. 1.6e-16;
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Sequence 679

Query Match

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Score 189;

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Length 679;

Sequence 679

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RESULT 15
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ID ADN17
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Best Local (
                                                               The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                      Diagnosing diseases such as cancer of the gastrointestinal tract, detecting aberrant expression or activity of the CS198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-MAR-1997;
30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                  associated treatment
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                                                                                                                                                                                                                                                                                    Claim 17; SEQ ID NO 42; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                               GENBANK; D87440.
                                              present sequence invention.
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ROBERTS-RAPP :
RUSSELL J C.
STROUPE S D.
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
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98US-00050516
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yden MA,
Russell
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Hodges SC,
JC, Stroupe
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Pred. No. 1.6e-16;
Mismatches 0;
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SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Friedman PN, Gordon
Klass MR, Kratochvil
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| Search completed: March 3, 2006, 13:35:20<br>Job time : 21.242 secs | Db 465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500 | Qy 1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36 | Best Local Similarity 100.0%; Pred. No. 1.6e-16; Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0; |
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Result
No.
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Maximum Match 100%
Listing first 45 s
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Maximum DB
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                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
                                                                                                                                                                                                                                                                                                        Score
53.5
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1523.185 Million cell update
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Gapop 10.0 , Gapext 0.
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189
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197
226
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1829
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calcium-binding pr
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|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| 24/4 2 34/791 442 2 JC4978 442 2 T31980 90 2 T31980 351 2 S50754 351 2 JC5775 686 2 T245483 998 2 T23427 2176 2 T13806 2825 2 T14271 274 2 A39961 654 2 T19785 3938 2 AG3127 69 2 B98160   | 49     | 49     | 49.5   | 49.5   | 49.5   | 49.5   | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50.5   | 50.5       |
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| 54/731<br>JC4978<br>T31980<br>H84947<br>S50754<br>JC5775<br>A45483<br>T23427<br>T13806<br>T14271<br>A10979<br>A39961<br>T19785<br>T19785<br>A45483   | 69     | 58     | 3938   | 654    | 641    | 274    | 2825   | 2176   | 998    | 686    | 383    | 351    | 351    | 90     | 442    | 274        |
|  | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | ^          |
|  | B98160 | AG3127 | T42761 | T19785 | A39961 | AI0979 | T14271 | T13806 | T23427 | A45483 | JC5775 | S50754 | H84847 | T31980 | JC4978 | S4 / / 9 L |
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## ALIGNMENTS

ryescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; Ow, D.; Nolan, M.; submitted to the EMBL Data Library, January 1998
A;Description: Sequence analysis of a 3.5 Mb contig in 19p13.3 between CDC34 and D198342
A;Reference number: Z14195
A;Accession: T00636

A;Status: preliminary; translated from GB/EMBL/DDBJ

hypothetical protein F21856 2 - human
(;Species: Home sapiens (man)
(;Species: Home sapiens (man)
(;Date: 01-Feb-199) #sequence\_revision 01-Feb-1999 #text\_change 09-Jul-2004
(;Date: 01-Feb-199) #sequence\_revision 01-Feb-1999 #text\_change 09-Jul-2004
(;Accession: T00636

RESULT 1

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R;Koehrer, K.; Beyer, A.; Mewes, H.W.; Weil, B.; Wiemann, S. submitted to the Protein Sequence Database, July 2000 A;Reference number: Z25855 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-218 <AAA>
                                                                                                                                                                                                                                                                                          hypothetical protein DKFZp762K222.1 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 20-Oct-2000 #sequence_revision 20-Oct-2000 #text_change 09-Jul-2004
C;Accession: T51887
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A;Introns: 594/1; 637/3; 650/3
A;Note: F21856_2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Molecule type: DNA
A;Residues: 1-679 <LAM>
A;Cross-references: UNIPROT:QBIVT2; UNIPARC:UPI00000745CD; EMBL:AC004030; NID:g2804590;
                                                                            A; Note: DKFZp762K222.1
                                                                                                                 A;Cross-references: UNIPROT:Q9NPS8; UNIPARC:UPI000006E97D; EMBL:AL390216
A;Experimental source: adult melanoma (MeWo cell line); clone DKFZp762K222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 36; Conservative C
Query Match
Best Local Similarity
Matches 12; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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  Conservative
                  29.1%;
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  <u>ت</u>
                      Score 55;
Pred. No.
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Pred. No. 1.4e-15;
Mismatches 0;
  Mismatches
                                         DB 2;
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                                         Length 218
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RESULT 5
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C;Superfamily: human cytochrome P450 CYP2D6; cytochrome P450 homology
C;Keywords: heme; iron; metalloprotein
C;K5yMords: heme; iron (Cys) (axial ligand) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probable cytochrome P450 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Feb-2001 #sequence revieto no months are control of the control of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-315 <RES>
A;Cross-references: UNIPROT:Q14109; UNIPARC:UPI0000179D14; EMBL:X59131; NID:g30387; PID:A;Note: Bubmitted to the EMBL Data Library, April 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     highly charged protein - human
C;Species: Homo sapiens (man)
C;Date: 01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 09-Jul-2004
C;Accession: 137273; S19884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.D.; Benito, M.I.; Town, C.D.; Fujii, C.Y.; M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; Vanaken, S.E.; Umayam, L.; Tallon, L. euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature 402, 761-768, 1999
protein F15K9.3 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 C;Accession: D86165
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A;Title: A unique intronless gene or gene segment on chromosome 13 specifying a l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
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A; Residues: 1-518 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana. A;Reference number: A84420; MUID:20083487; PMID:10617197 A;Accession: B84514 A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Gene: At2g14100
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;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RFLASSRGKEEEREQELKYIPFGSGRRGCPGVNLGYI 461
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                                                                                                                                                                                                                                                                                                                                              HVSKKARKSASKPPPISKPPAGPPSSN 205
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Score 54; DB;
; Pred. No. 30;
4; Mismatches

 Mismatches

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                                          #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 7
S39866
                                          R;Murphy, T.F.; Kirkham, C.; Lesse, A.J.
Mol. Microbiol. 10, 87-97, 1993
A;Title: The major heat-modifiable outer membrane protein
A;Reference number: S39866; MUID:95058186; PMID:7968522
A;Accession: S39866
                                                                                                                                                                                                                                                    C;Date: 19-Mar-1997 #sequence_revision 06-Jun-1997 #text_change C;Accession: S39866
                                                                                                                                                                                                                                                                                                                                     outer membrane protein CD precursor - Moraxella catarrhalis C;Species: Moraxella catarrhalis
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R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; ansen, N.F.; Hughes, B.; Huizar, L.

Nature 408, 816-820, 2000

A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C., C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziali, Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.

A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, I ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A;Title: Sequence and analysis of Ch.M.; Venter, J.C.; Davis, R.W.

A;Reference number: A86141; MUID:21016719; PMID:11130712
                                                                                                                                                                                                                                                                                                               A;Cross-references: UNIPROT:O61826; UNIPARC:UPI00001786FB; A;Experimental source: strain Bristol N2; clone B0511 C;Genetics:
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A;Map position: 1
C;Superfamily: Arabidopsis thaliana probable apoptosis inhibitor
                                                                                                                                                                                                 A;Map position: 1
A;Introns: 57/1; 118/3; 143/3; 176/3; 279/2; 336/3
F;135-181/Domain: BKBP-type peptidylprolyl isomerase homology <PPI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Tin-Wollam, A.; Sutterer, C.; Ozersky, P.
submitted to the EMBL Data Library, May 1998
A;Description: The sequence of C. elegans cosmid B0511.
A;Reference number: Z21285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-823 <STO>
                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: DNA
A; Residues: 1-360 <TIN>
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                                                                                                                                                                                                                                                                                         A;Gene: CESP:B0511.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Accession: T33124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hypothetical protein B0511.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
                                                                                                Query Match
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Status: preliminary; translated from GB/EMBL/DDB:
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Best Local
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104
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                                                 RHLSE-SSGKPLSTKQEASKPPRGCPQ 29
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RHLEEMDNGGPLDIKIEKTFVPAKCPQ 130
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                                                                                                        Conservative
                                                                                                                            28.3%;
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                                                                                                   ; Score 53.5; D; Pred. No. 39; 2; Mismatches
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Pred. No. 73;
4; Mismatches
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B

is highly conserved

among

09-Jul-2004

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protein F20B17.12 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Species: O2-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 31-Dec-2004
C;Accession: H96827
R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Pederspiel, N.A.; Kaul, S.; White, O.; Al
Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar
Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar
ansen, N.F.; Hughes, B.; Hulzar, L.
Nature 408, 816-820, 2000
A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Ki.
C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marz
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tal
ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A;Reference number: A86141; MUID:21016719; PMID:11130712
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A;Cross-references: UNIPROT:Q08657; UNIPARC:UPI00000BB8DE; EMBL:L10755; NID:g149756; PID C;Keywords: membrane protein
F;1-26/Domain: signal sequence #status predicted <SIG>
F;27-453/Product: outer membrane protein CD #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypothetical protein Y57G11C.32 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 31-Dec-2004 C;Accession: T27242
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                                                               A; Map position: 1
C; Superfamily: floral
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                                                                                                                                                                            A; Molecule type: DNA
A; Residues: 1-308 <STO>
                                                                                                                                                                                                                                                 A;Accession: H96827
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Best Local &
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Reference number: 220330
                                                                                                                                                         Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gene: CESP:Y57G11C.32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Molecule type:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
  Local Similarity
                                                                                                               F20B17.12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 SPRHLSESSGKPLSTKQEASKP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TPTPISENSGKSLSTAQSFENP 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                         UNIPROT:Q9MA06; UNIPARC:UPI000009FF2E; GB:AE005173; NID:g7715603; PI
                                                                  homeotic protein / AP2 domain transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28.3%;
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28.0%;
38.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 53.5;
Pred. No. 48;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                UNIPARC: UPI0000082309; EMBL: 299281; PIDN: CAB54455.1
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A;Molecule type: protein
A;Molecule type: protein
A;Rosidues: 'XX',163-182;271-295;340-352;376-382;404-415;550-559;572-583;620-632;644-648
A;Rosidues: 'XX',163-182;271-295;340-352; UNIPARC:UPI0000175364; UNIPARC:UPI0000175365,
A;Cross-references: UNIPARC:UPI000017536C; UNIPARC:UPI000017536D
R;Toussaint, J.L.; Geoffroy, V.; Schmitt, M.; Werner, A.; Garnier, J.M.; Simoni, P.; Ker
Genomics 12, 412-416, 1992
A;Title: Human choline acetyltransferase (CHAT): partial gene sequence and potential cor
A;Reference number: S24416; MUID:92155737; PMID:1339386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Title: Conservation of amino acid sequences between human and A;Reference number: A60202; MUID:89036242; PMID:3183663 A;Accession: A60202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Title: A complementary DNA for human choline acetyltransferase induces A;Reference number: 152631; MUID:93180642; PMID:1337937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Oda, Y.; Nakanishi, I.; Deguchi, T. Brain Res. Mol. Brain Res. 16, 287-294,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Accession: I52631; A60202;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Cross-references: UNIPARC:UPI000016A6CB; EMBL:X56879; NID:g29940; R;Hersh, L.B.; Kong, C.F.; Sampson, C.; Mues, G.; Li, Y.P.; Fisher, J. Neurochem. 61, 306-314, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Residues: 1-748 <RES>
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A;Molecule type: mRNA, A;Rostedues: 111-119, 'T',121-260,'GQ',263-391,'A',393-395,'L',397-433,'G',435-528,'S',A;Restdues: 111-119,'T',121-260,'GQ',263-391,'A',393-395,'L',397-433,'G',435-528,'S',A;Roostedues: UNIPARC:UPI00016B393; EMBL:845018; NID:9257109; PIDN:AAB23557.2; A;Misawa, H.; Matsuura, J.; Oda, Y.; Takahashi, R.; Deguchi, T. R;Misawa, H.; Matsuura, J.; Oda, Y.; Takahashi, R.; Deguchi, T. Mol. Brain Res. 44, 323-333, 1997
MOl. Brain Res. 44, 323-333, 1997
A;Title: Human choline acetyltransferase mRNAs with different 5'-region produce a 69-iA;Reference number: PC4342; MUID:97225904; PMID:9073174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Title: Comparison of the promoter region of the human and A;Reference number: PH1571; MUID:93294599; PMID:8515278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Description: Isolation and sub-chromosomal localization of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Cervini, R.; Rocchi, M.; DiDonato, S.; Finocchiaro, submitted to the EMBL Data Library, January 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: DNA
A; Residues: 109-150, 'Q', 152-232 <TOU>
A; Cross-references: UNIPARC: UPI000016A6CA; EMBL: X56585; NID: g29938;
                                                                                                                                                                                                                                                                                              A; Title: Two mRNAs are transcribed from the human A; Reference number: Z14429; MUID:93000480; PMID:13
                                                                                                                                                                                                                                                                                                                                                            A;Note: GenBank sequence g505335 (accession L33837) is R;Lorenzi, M.V.; Trinidad, A.C.; Zhang, R.; Strauss, W. DNA Cell Biol. 11, 593-603, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-95 <HE2>
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A;Residues: 688-738 <CER>
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                                                                                                                                                                                                                           A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                  A; Accession: T01786
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;Species: Homo sapiens (man)
;Date: 10-Nov-1992 #sequence revision 13-Mar-1997 #text change 09-Jul-2004
;Date: 10-Nov-1992 #sequence revision 13-Mar-1997 #text change 09-Jul-2004
;Date: 10-Nov-1992 #sequence revision 13-Mar-1997 #text change 09-Jul-2004
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Neurochem. 51, 1843-1845, 1988
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A.; Hilt,
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protein P97 - Mycoplasma hyopneumoniae C;Species: Mycoplasma hyopneumoniae C;Species: Mycoplasma hyopneumoniae C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004 C;Accession: T1835; T03805 R;Hsu, T.; Artiushin, S.; Minion, F.C. J. Bacteriol. 179, 1317-1323, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: GDB:119775; OMIM:118490
A;Map position: 10g11.2-10g11.2
A;Introns: 129/3; 193/3
C;Superfamily: carnitine O-acetyltransferass
C;Keywords: acyltransferase; coenzyme A
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A;Title: Molecular analysis of the P97 cilium adhesin operon of Mycoplasma hyopneumoniae
A;Reference number: Z15097; MUID:98391007; PMID:9729120
A;Accession: T03805
A;Accession: T03805
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A;Molecule type: DNA
A;Residues: 1-1108 <HSU>
A;Cross-references: UNIPROT:Q49542; UNIPARC:UPI00000AE988; EMBL:U50901; NID:g1399524; PI
A;Cross-references: UNIPROT:Q49542; UNIPARC:UPI00000AE988; EMBL:U50901; NID:g1399524; PI
R:Hsu. T.; Minion, F.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      u. вастетiol. 179, 1317-1323, 1997
A;Title: Cloning and functional analysis of the P97 swine cilium adhesin gene of Mycopl.
A;Reference number: Z18886; MUID:97175562; PMID:9023217
A;Accession: T18353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Molecule type: mRNA
A;Residues: 119-152 <MI2>
A;Cross-references: UNIPARC:UPI0000000373; DDBJ:D82342; NID:g1906789; PIDN:BAA18946.1;
A;Experimental source: brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;Residues: 119-152 <MI3>
;Cross-references: UNIPARC:UPI0000000373; DDBJ:D82341; NID:g1906787; PIDN:BAA18945.1;
;Experimental source: brain
                                                                                                                                                                                                                                                                                                                         ;Molecule type: DNA
;Residues: 1089-1108 <HS2>
                                                                                                                                                                                                                                                                             ;Experimental
                                                                                                                                                                                                                                                                                                    ;Cross-references: UNIPARC:UPI000016E1AD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;Comment: This enzyme is responsible for the biosynthesis of the neurotransmitter acet;
;Comment: This enzyme is involved in the synthesis of the neurotransmitter acetylcholii
;Comment: This enzyme is involved in the synthesis of the neurotransmitter acetylcholii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;Molecule type: mRNA
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                                                                                                                                                                                                                                                     Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Accession: PC4343;
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                                                                                                                          Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                                                           code:
837
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                                                                                                l Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LSESSGKPLSTKQEASKPPRG 26
PEAAKPEAAKPVAAKPEAAKPVAAKPEAAKPV 868
                                               PRHLSESSGKPLSTKQEASKPPRGCPQANRGV 34
                                                                                                                                                                                                                                                                          source:
                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                              Score 53; DB:
Pred. No. 1.3e
6; Mismatches
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Pred. No. 89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                        1.3e+02;
15;
                                                                                                                                                                                                                                                                                                  EMBL:AF012905; NID:g2654768; PIDN:AAC32526.1
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                                                                                                                                               Length 1108;
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RESULT 12

hypothetical RESULT

protein SCH24.19c

Streptomyces coelicolor

T36584

14

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A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana. A;Reference number: A84420; MUID:20083487; PMID:10617197 A;Accession: B84692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.; N. M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.c. euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J. Nature 402, 761-768, 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Residues: 1-1126 <WIL>
A;Residues: 1-1126 <WIL>
A;Residues: 1-1126 <WIL>
A;Cross-references: UNIPROT:Q19371; UNIPARC:UPI00000778EA; EMBL;Z73425; PIDN:CAA97788.1;
A;Experimental source: clone F12F6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Kershaw, J.
submitted to the EMBL Data Library, May 1996
A;Reference number: Z19326
A;Accession: T20801
                                                                                                                                                                                                                                                                                                                       A;Molecule type: DNA
A;Residues: 1-392 <5TO>
A;Cross-references: UNIPARC:UPI00000A4C4F; GB:AE002093; NID:g3461847; PIDN:AAC33233.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Rounsley, S.D.; Lin, X.; Kaul, S.; Shea, T.P.; Fujii, C.Y.; Mason, T.M.; Shen, submitted to the EMBL Data Library, August 1998
A;Description: Arabidopsis thaliana chromosome II BAC T9I4 genomic sequence.
A;Reference number: Z14710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                probable ubiquitin fusion-degradation protein At2g29070 [imported] - Arabidopsis thaliana (Species: Arabidopsis thaliana (mouse-ear cress) C;Becies: Arabidopsis thaliana (mouse-ear cress) C;Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 09-Jul-2004 C;Accession: T02737; B84692
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A; Introns: 34/1; 90/1; 126/1; 441/3; 526/3; 604/1; 757/3; 1051/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hypothetical protein F12F6.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
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                                                                                                                                                                                                          A;Introns: 11/1; 22/1; 62/3; 106/2; 181/1; 260/3
C;Superfamily: Caenorhabditis elegans hypothetical protein F19B6.2b
                                                                                                                                                                                                                                                              A; Map position:
                                                                                                                                                                                                                                                                                                                                                                                                                    A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: UNIPROT:O81075; UNIPARC:UPI00000A4C4F; EMBL:AC005315; NID:g3461834; FA;Experimental source: cultivar Columbia
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A; Residues: 1-1126 <
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                                                                                                                                                                                                                                                                                      Gene: At2g29070; T9I4.15;
                                                                                                       Matches
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                                                                                                     13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                 PRHLSESSGKPLSTKQE---ASKPPRGCPQANRG 33
POKLTPSNKRPLOVKEEEEPASKVPKFTPFTGSG 201
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                                                                                                       Conservative
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                                                                                                                           27.8%;
38.2%;
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                                                                                                     6; Mismatches
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Pred. No. 1
                                                                                                                                Score 52.5;
Pred. No. 43
                                                                                                                             Pred.
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                                                                                                                                                         DB 2;
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                                                                                                                                                         Length 292;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      histone H1-5 [validated] - human
N;Alternate names: histone H1.5; histone H1a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:Q9X8T3; UNIPARC:UPI00000DB068; EMBL:AL049826; PIDN:CAB42725
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Status: preliminary; translated from GB/EMBL/DDBC
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Date: 03-Mar-2000 #sequence_revision 03-Mar-2000 #text_change 09-Jul-2004
Accession: S51660; JX0087; I59499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                Query Match
Best Local Similarity
                                                                                                                                                                                                                  38-112/Domain: globular <GLB>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Title: Human spleen histone H1; isolation and amino acid sequences of three minor vari
Reference number: JX0080; MUID:90130391; PMID:2613692
                                                                                                                                                                              2/Modified site:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gene: GDB:H1F5
Cross-references: GDB:6261922; OMIM:142711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Albig, W.; Doenecke, D.
bmitted to the EMBL Data Library, December 1994
Description: A human histone gene cluster containing a complete
                                                                                                                                                                                                                                                                                                                                                                                                                                          Map position: 6p22.2-6p21.1
Superfamily: histone H1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Reference number: S51660
                                                                                                                                                                                                                                                                                                     Keywords: acetylated amino end; chromosomal protein; DNA binding; nucleosome; nucleus
2-226/Product: histone H1-5 #status experimental <MAT>
2-37/Domain: amino-terminal <ATD>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aolecule type: DNA
Residues: 1-36,'1',38,'A',40-51,'P',53-58,'A' <CAR>
Eross-references: UNIPARC:UPI00006CF66; GB:K02570; NID:gl83746; PIDN:AAA35943.1; PID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tesidues: 2-214,218-226 <OHE>
tesidues: 2-214,218-226 <OHE>
tross-references: UNIPARC:UPI00014D4CF
tross-references: UNIPARC:UPI00014D4CF
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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1847.299 Million cell updates/sec
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Q5rbh3
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Q5RBH3;
                             NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

MEDLINB=22354683; PubMed=12466851; DOI=10.1038/nature01266;

Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,

Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,

Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,

Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,

Schriml L.M., Kanapin A., Matsuda H., Battalov S., Beisel K.W.,

Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,

Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,

Gassterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,

Gassterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
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13-SEP-2005 (Rel. 48, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Protein C19orf21 homolog.
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Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Mus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Kidney
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13-SEP-2005 (Rel. 48, Last seq
13-SEP-2005 (Rel. 48, Last ann
Protein C19orf21 homolog.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PONPY
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86.1%;
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    Hirokawa N.,
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Pred. No. 8.6e-11;
1; Mismatches 4
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Pred. No. 4.5e-15;
Mismatches 0;
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RXI NEFLAINEFUB/N; ILSSUE-COLON;

RX MEDILINE-2238857; Pubmedel12477932; DOI=10.1073/pnas.242603899;

RA Klausher R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Klausher R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., McEwan R., Joshiyuki S., Carninci P., Prange C.,

RA RA Basak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA RA Histor B., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Hotaviguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

"Generation and initial analysis of more than 15,000 full-length human

RT and mouse cDNA sequences.",

Proc. Natl. Acad. Sci. U.S.A. 99:1699-16903(2002).
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XA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
XA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
XA Magashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
XA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
XA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
XA Sandelin A., Schneider C., Semple C.A., Secou M., Shimada K.,
XA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
XA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
XA Wilming L.G., Wynshaw-Boris A., Yangaisawa M., Yang I., Yang L.,
XA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
XA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
XA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
XA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
XA Hara A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
Yasunishi A., Yoshino M., Materston R., Lander E.S., Rogers J.,
Xa Yasunishi A., Yoshino M., Materston R., Lander E.S., Rogers J.,
                                                                                                                                                   Matches
                                                                                                                                                                                      Query Match
Best Local Similarity
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"Analysis of the mouse transcriptome based on 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
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COILED
                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AK020266; BAB32049.1; -; mRNA.
EMBL; BC013508; AAH15508.1; -; mRNA.
Ensembl; ENSMUSGO000035852; Mus musculus.
MGI; MGI:1926156; 9130017N09Rik.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This Swiss-Prot entry is copyright. It is produced through a collaboratic between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it use as long as its content is in no way modified and this statement is no
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                                                                                                                                                                                                                                                                                                      SEQUENCE
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SPRHVSESSGRSLSSKQEWSKPPG--KATNVGVVR
                                                                 SPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
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648 AA;
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'-
                                                                                                                                                                                  Score 100; DB 1;
Pred. No. 0.00068;
                                                                                                                                                                                                                                                                                                   Potential.
; 1E395B70763B3D1F CRC64;
                                                                                                                                                   Mismatches
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Sato K.,
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RESULT 4
Q99KR0 MOUSE
ID Q99KR0 MOUSE PRELIMINARY;
AC Q99KR0;
DT 01-JUN-2001 (TrembLrel. 17,

Created)

PRT;

389 B 밁 S

RIKEN full-length

protein

Euteleostomi; tia; Sciurognathi;

DOI=10.1016/S0076-6879(99)03004-9;

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RX MEDLINE=22388257; PubMed=12477932; DDI=10.1073/pnas.242603899; RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., RA Lischenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., RA Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C., RA Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C., RA Brownstein M.J., Wallan N.A., Peters G.J., Abramson R.D., Mullahy S.J., RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Hulyk S.W., RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human RT and mouse cDNA sequences.";
RESULT 5
Q8C911 MOUSE 1
DE Q8C911 MOUSE 1
AC Q8C911 T
DT 01-MAR-2003 (7
DT 01-MAR-2003 (7
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Best Local
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Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia, Sciurognathi,
Muridae, Murinae, Mus.
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688888
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strausberg R.;
Submitted (FEB-2001)
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STRAIN=Mix FVB/N;
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SMART; SM00526; H15; 3.
Chromosomal protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GI; MGI:109369; Hplbp3.

GG; GO:0005694; C:chromosome; IEA.

GG:0000786; C:nucleosome; IEA.

GG:0005634; C:nucleosome; IEA.

GG:0005634; P:DNA binding; IEA.

GG:0006334; P:nucleosome assembly; II

nterPro; IPR05818; Histone_H1/H5.

nterPro; IPR05819; Histone H5.

nterPro; IPR05819; Histone; 3.

http://doi.org/10.1006/14.

http://doi.org/10.

http://doi.org/10.

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                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                              AKSOGKTASMKORGSKPARKVPAAORGKVR
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      (TrEMBLrel. 23, (TrEMBLrel. 23,
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      Created)
Last sequence update)
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2; Mismatches
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annotation update)
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         RC STRAIN-CS7BL/GG; TISSUE-Cerebellum;

RX MEDLINE-21085660; PubMed-11217851; DOI-10.1038/35055500;

RX KAWAI J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Adachi J., Fukuda S.,

RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,

RA Arakawa T., Hara A., Fukunishi Y., Konno H., Kasukawa T., Saito R.,

RA Arakawa T., Hara A., Nashira T., Bono H., Kasukawa T., Saito R.,

RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,

RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

RA Blake J., Boffelli D., Bojunga N., Carminci P., de Bonaldo M.F.,

RA Blake J., Boffelli D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,

RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,

RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Sakamoto N.,

Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,

RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,

Mannagara T., Sakamoto N., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
      sequencing |
Genome Res.
[6]
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enriched library, clone:A730077D13 product:heterochromatin
binding protein 3, full insert sequence.
                                       STRAIN-C57BL/6J; TISSUE-Cerebellum;

MEDLING-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLING-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

Shibata K., Itch M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.

Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itch M.,

Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,

Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,

Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,

Yoneda Y., Ishikwa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.

Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

"RIKEN integrated sequence analysis (KISA) system-384-format

sequencing pipeline with 384 multicapillary sequencer.";

Genome Res. 10:1757-1771(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN-C57BL/6J; TISSUE-Cerebellum;
The FANTOM Consortium,
the RIKEN Genome Exploration Research Group Ph
"Analysis of the mouse transcriptome based on
60,770 full-length cDNAs.";
Nature 420:563-573(2002).
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MEDLINE=99279253; PubMed=10349636;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100; Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.; Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.; Prepare full-length cDNA libraries for rapid discovery of new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE.
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"High-efficiency full-length cDNA cloning.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.
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Res. 10:1617-1630(2000).
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Phase I & II on functional

Team; annotation

Carninci P.,

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REMEMBL; ENSMUSGO000028759; Mus musculus.

MGI; MGI:109369; Hplbp3.

RGO; GO:000594; C:chromosome; IEA.

RGO; GO:000594; C:chromosome; IEA.

RGO; GO:0000786; C:nucleosome; IEA.

RGO; GO:000377; F:DNA binding; IEA.

RGO; GO:000377; F:DNA binding; IEA.

RGO; GO:000334; P:nucleosome assembly; IEA.

RGO; GO:0005334; P:nucleosome H1/H5.

RINterPro; IPR005818; Histone H1/H5.

RINterPro; IPR005818; Histone H5.

RINTERPO; IPR005819; Histone; 3.

PFAmm; PF00538; Linker histone; 3.

PRINTS; PR00526; H15; 3.

DR PRINTS; SM00526; H15; 3.
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A Rukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,
A Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,
A Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,
A Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,
A Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,
A Saito R., Sonda K., Numazaki R., Ohno'M., Ohsato N., Okazaki Y.,
A Saito R., Sattoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
A Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
A Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,
A Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,
A Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;
LI Submitted (JUL-2001) to the EMBL/GenBank/DBBJ databases.
C -- SUBCELLULAR LOCATION: Nuclear (By similarity).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Best Local (
Arakawa T., naza
Aizawa K., Izawa M.
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Q8BT17;
01-MAR-2003 ('01-MAR-2003 ('
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01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Mus musculus 10 days embryo whole body cDNA, RIKEN full-length
enriched library, clone:2610024J01 product:heterochromatin prot
binding protein 3, full insert sequence.
        STRAIN-C57BL/6J; TISSUB-Whole body;
MEDLINE-21085660; PubMed=11217851; DOI=10.1038/35055500;
Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii
Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda
Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka
Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito
                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE
STRAIN-C57BL/6J; TISSUE=whole body;
MEDLINE=9279253; PubMed=10349636;
Carninci P., Hayashizaki Y;
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Meth. Enzymol. 303:19-44(1999).
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Muroidea; Muridae; Murinae;
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Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurogna
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Name=Hplbp3;
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516 AA; 56841 MW; 95FCF9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE=Cerebellum;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38.6%;
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Pred. No. 1.3;
2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOI=10.1016/S0076-6879(99)03004-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            553
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Tanaka T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sciurognathi;
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RC STRAIN-C578L/6J; TISSUE=Whole body;

RC Addachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,

RA Adachi J., Aizawa K., Hanagaki T., Hara A., Hashizume W.,

RA Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,

RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,

RA Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,

RA Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,

RA Kurihara C., Mateuyama T., Miyazaki A., Murata M., Nakamura M.,

RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,

RA Nishi K., Nomura K., Numazaki R., Ohno M., Sakatume N., Sano H.,

Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,

RA Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,

RA Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.,

RI Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.,

RI Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.,

RI Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.

-I- SUBCELLULAR LOCATION: Nuclear (By similarity).
Ensembl; ENSMUSGO000028759; Mus musculus MGI; MGI:109369; Hglbp3.

GO; GO:0005694; C:chromosome; IEA.
GO; GO:000786; C:nucleosome; IEA.
GO; GO:0005634; C:nucleus; IEA.
GO; GO:0003677; F:DNA binding; IEA.
GO; GO:000337; F:DNA binding; IEA.
GO; GO:000337; F:DNA binding; IEA.
InterPro; IPR005818; Histone_H1/H5.
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Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
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Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
Hayashizaki Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=C57BL/6J; TISSUE=Whole body;

MEDLINE=20530913; PLDMed=11076861; DOI=10.1101/gr.152600;

MEDLINE=20530913; PLDMed=11076681; DOI=10.1101/gr.152600;

Shibata K., Itch M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,

Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itch M.,

Yamamoto R., Matsumoto H., Sakagucha M., Nishine T., Kashiwagi K.,

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Pujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watshiki M.,

Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,

Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

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sequencing pipeline with 394 multicapillary sequencer.";

Genome Res. 10:1757-1771(2000).
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MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata Konno H., Okazaki Y., Muramatsu M., Hayatsuki Y.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The FANTOM Consortium,
the RIKEN Genome Exploration Research
"Analysis of the mouse transcriptome l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hayashizaki Y.; "Functional annotation of a
                                                                                                                                                                                      EMBL; AK028181; BAC
HSSP; P02259; 1HST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUCLEOTIDE SEQUENCE
STRAIN=C57BL/6J; TI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 full-length cDNAs."; 420:563-573(2002).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE.
BL/6J; TISSUE=Whole
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                                                                                                                                                                     Mus musculus.
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                                 IEA.
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetcw K.H., Schaefer C.F., Bhat N.K.,

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A Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

A Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

McGenerch A., Schein J.E., Jones S.J.M., Marra M.A.;
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Best Local
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MGI; MGI:109369; Hplbp3.

GO; GO:0005694; C:chromosome; IEA.
GO; GO:000786; C:nucleosome; IEA.
GO; GO:0005634; C:nucleous; IEA.
GO; GO:0003677; F:DNA binding; IEA.
GO; GO:0003634; P:nucleosome assembly; IE
InterPro; IPR005818; Histone_H5.
InterPro; IPR005819; Histone_H5.
InterPro; IPR005819; Histone_H5.
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SMART; SM00526; H15; 3.
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InterPro; IPR011991; Wing_hlx_DNA_bd.
Pfam, PF00538; Linker_histone; 3.
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Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurogna
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAR-2002 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
Heterochromatin protein
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                                                                                                                                                                                                                                                                                                                      EMBL; BC020024; AAH20024.1; -; mRNA.
HSSP; P02259; 1HST.
                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-FVB/N; TISSUE-Mammary tumor. Director MGC Project; Submitted (DEC-2001) to the EMBL/Ge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-22388257; PubMed-12477932; DOI-10.1073/pnas.242603899;
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Mus musculus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Generation and initial analysis of more than and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUCLEOTIDE SEQUENCE
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| protein; Nuclear protein.
| 553 AA; 60738 MW; BA903BF37792223A CRC64;
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1, binding protein 3.
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Pred. No. 1.4;
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Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Buarchontoglires; Glires; Rodentia; Sciurogna
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protein 3,
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01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Mus musculus adult male liver cDNA, RIKEN full-length enriched
library, clone:1300008A17 product:heterochromatin protein 2, b
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=C57BL/6J; TISSUE=Liver;
MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
Carninci P., Hayashizaki Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
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                                                                                   the RIKEN Genome Exploration Research Group "Analysis of the mouse transcriptome based 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
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Muroidea; Muridae; Murinae; Mus.
NUCLEOTIDE SEQUENCE.
STRAIN=C57BL/6J; TISSUE=Liver;
                                                                                                                                                                                                        The FANTOM Consortium,
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[3]
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554 AA; 6
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'I T., Fukuda S
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A Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
A Hanagaki T., Hara A., Hayateu N., Hiramoto K., Hiraoka T., Hori F.,
A Hanagaki T., Hara A., Itoh M., Izawa M., Kasukawa T., Kato H.,
Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
A Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
A Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
A Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
A Kawai J., Kojima Y., Konno H., Salto H., Salto R., Sakai C., Sakai K.,
A Okazaki Y., Okido T., Owa C., Salto H., Salto R., Sakai C., Sakai K.,
A Okazaki Y., Okido T., Owa C., Salto H., Salto R., Sakai C., Sakai K.,
A Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
A Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
A Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
A Muramateu M., Hayashizaki Y.,
A Muramateu M., Hayashizaki Y.,
Submitted (JUI-2000) to the EMBL/GenBank/DDBJ databases.

-!- SUBCELLULAR LOCATION: Nuclear (By similarity).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 16
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Ensembl; ENSMUSGO0000028759; Mus musculus.

MGI; MGI: 109369; Hplbp3.

GO; GO:0005694; C:chromosome; IEA.

GO; GO:0005694; C:nucleosome; IEA.

GO; GO:0003677; P:DNA binding; IEA.

GO; GO:0003677; P:DNA binding; IEA.

GO; GO:0003679; P:DNA binding; IEA.

GO; GO:0003679; Histone H1/H5.

InterPro; IPR005819; Histone H5.

InterPro; IPR005819; Histone H5.

InterPro; IPR011991; Wing hlx DNA bd.

Pfam; PF00538; Linker histone; 3.

PRLNTS; PR00624; HISTONEH5.
                                                                                      ULT 9
(747 RAT QGF747 RAT PRELIMINARY;
QGF747, RAT PRELIMINARY;
QGF747;
05-UUL-2004 (TrEMBLrel. 27
05-UUL-2004 (TrEMBLrel. 27
05-UUL-2004 (TrEMBLRel. 27
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MEDINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,

Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M.,

Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,

Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,

Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,

Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,

Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

"RIKEN Integrated sequence analysis (RISA) system-384-format

sequencing pipeline with 384 multicapillary sequencer.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., It Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y., "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genome Res. 10:1617-1630(2000).
                                    Hypothetical p
Name=MGC72624;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=C57BL/6J; TISSUB=Liver;
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                                                                                                                                                                                                                                                                                                                                                                                           464
   norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l Similarity
                                                                                                                                                                                                                                                                                                                                                                                           AKSQGKTASMKQRGSKPARKVPAAQRGKVR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 554 AA;
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554 AA; 60868 MW; 7BC6CA49F2F02F70 CRC64;
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                                                               protein MGC72624.
      (Rat)
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                                                                                                27,
27,
                                                                                                Last sequence u
                                                                                                                                                               Created)
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Pred. No. 1.4;
2; Mismatches
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                                                                                                                                     sequence update)
                                                                                                                                                                                                                               553
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RESULT 10
Q4P7A4 USTWA ID 744P7A4;
ID 744P7A4;
DT 13-SEP-2005 (T
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RX Strausberg R.L., Peingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Liechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
"Generation and initial analysis of more than 15,000 full-length human
"Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";

Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903(2002).
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Best Local
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SMART; SM00526; H15; 3
Chromosomal protein; H
CHROMOSE 553 AA; 60
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InterPro; IPR005819; Histone_H5.
InterPro; IPR005819; Histone_H5.
InterPro; IPR011991; Wing_h1x_DNA_bd.
Pfam; PF00538; Linker_histone; 3.
PRINTS; PR00624; HISTONEH5.
                                 Ustilago maydis 521.
Eukaryota; Pungi; Basidiomycota; Ustilaginomycetes;
Ustilaginomycetidae; Ustilaginales; Ustilaginaceae;
NCBI_TaxID=237631;
                                                                                                                                                             Hypothetical protein. ORFNames=UM04009.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GO; GO:0000786; C:nucleosome; IEA.
GO; GO:0005634; C:nucleus; IEA.
GO; GO:0003677; F:DNA binding; IEA.
GO; GO:0006334; P:nucleosome assembly;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg R.;
Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.
-!-SUBCELLULAR LOCATION: Nuclear (By similarity).
EMBL; BC061837; AAH61837.1; -; mRNA.
Ensembl; ENSRNOG00000014445; Rattus norvegicus.
RGD; 735099; MGC72624.
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Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Rattus.
NCBI TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Prostate;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SESSGKPLSTKQEASKPPRGCPQANRGVVR
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                                                                                                                                                                                                                                (TrEMBLrel.
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                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
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31,
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                                                                                                                                                                                                                                                                                                                                                                  403
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QAUSHS 9DELT
QAUSHS 9DELT
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AC QAUSHS 9
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DT 13-SEP-2
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DT 13-SEP-2
OC PROMOBE
OR PARACYONY
OC BACTETIA
OC CYSTOBA
RM [1]
RP NUCLEOTI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RA Birren B., Nusbaum C., Abebe A., Abouelleil A., Adekoya E., Ra Alt-zahra M., Allen N., Allen T., An P., Anderson M., Anderson S., Ra Arachchi H., Arabruster J., Bachantsang P., Baldwin J., Barry A., Ra Bayul T., Blitchsteyn B., Bloom T., Blye J., Boguslavskiy L., Ra Borrowsky M., Boukhgalter B., Bloom T., Blye J., Boguslavskiy L., Ra Borrowsky M., Boukhgalter B., Brunache A., Butler J., Calixte N., Calyon S., Camarata J., Cheshateang Y., Citroen M., Ra Collymore A., Considine T., Cook A., Cooke P., Corum B., Cuomo C., Ra David R., Daved T., Degray S., Dodge S., Dooley K., Dorje R., Ra Brickson J., Farina A., Faro S., Ferreira P., Fischer H., Ra Brickson J., Farina A., Faro S., Ferreira P., Fischer H., Ra Riczgrald M., Foley K., Gage D., Galagan J., Gearin G., Gnerre S., Ra Angopian D., Hagos B., Hall J., Hatcher B., Heller A., Hafez N., Ra Honan T., Horn A., Houde N., Hughes L., Hulme W., Hubby E., Iliev I., Jaffe D., Jones C., Kamal M., Kamat A., Kamysselis M., Karlsson E., Kalls C., Kiel A., Kiener P., Kodira C., Kulbokas E., Labutti K., Liu X., Lokyitsang T., Lokyitsang Y., Lucien O., Ra Lui A., Ma Lui J., Mabbitt R., Macdonald J., Maclean C., Major J., ALLIA A., Ma Lui J., Mabbitt R., Marcdonald J., Maclean C., Major J., Ra Mensus L., Murson G., Naylor J., Newes C., Nguyen C., Ra Mensus J., Marbella R., Maruk K., Meldrim J., Mensus L., Ra Mensus J., Marbella R., Maruk K., Meldrim J., Mensus L., Ra Mensus L., Ra Mensus J., Maches T., Ramasamy U., Rameau R., Ray V., Raymond C., Ra Norbu N., O'donnell P., Okoawo O., O'leary S., Conctosho B., Ra Mensus J., Stange T., Stanger T., Stanger T., Smith C., Sougnez C., Ra Mensus J., Testais R., Seaman C., Settipalli S., Sharpe T., Raymond C., Ra Naylor J., Stanger T., Stanger T., Stanger T., Maylor J., Thoulutsang Y., Topham K., Ra Yung S., Yang X., Yang S., Yang K., Yang S., Stanber S., Stubbe M., Talamas J., Tchuinga P., Talamas J., Testais S., Sharpe T., Raymond S., Wangdhuk T., Mangar S., Wangchuk T., Raymond S., Wangdhuk T., Wallee D., Vassilike H., Waday S., 
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Matches 14
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13-SEP-2005
13-SEP-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "The genome sequence of Ustilago maydis.";
Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
-!- CAUTION: The sequence shown here is derived from an
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                                                         Anaeromyxobacter dehalogenans 2CP-C.
Bacteria, Proteobacteria, Deltaproteobacteria, Myxococcales,
Cystobacterineae, Myxococcaceae, Anaeromyxobacter.
                                                                                                                13-SEP-2005 (TrEMBLrel.
13-SEP-2005 (TrEMBLrel.
Hypothetical protein.
ORFNames=AdehDRAFT_1840;
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 NUCLEOTIDE SEQUENCE
                                 NCBI_TaxID=290397;
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, AACP01000140; I
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Pred. No. 12;
3; Mismatches
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annotation
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Hafez N.,
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RESULT 13
Q992F5 HUMAN P
ID Q992F5;
AC Q992F5;
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DT 01-OCT-2002 (T
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AC Q95K63;
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US DOE Joint Genome Institute (JGI-PGF);
Copeland A., Lucas S., Lapidus A., Barry K., Detter C., Glavina Copeland N., Israni S., Pitluck S., Richardson P.;
Hammon N., Israni F., Pitluck S., Richardson P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AAHDO1000022;
Hypothetical protein
SEQUENCE 688 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Sequencing of the draft genome assembly dehalogenans 2CP-C.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Larimer F., Land M., "Annotation of the d dehalogenans 2CP-C."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                           libraries.";
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ
EMBL; AB066526; BAB62204.1; -; mRNA.
Hypothetical protein.
SEQUENCE 926 AA; 102534 MW; 8FDA496C4CA1A(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE-Medulla oblongata;
Osada N., Hida M., Kusuda J., Tanuma R., Is
Suzuki Y., Sugano S., Hashimoto K.;
"Isolation of full-length cDNA clones from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; V
Mammalia; Eutheria; Euarchontoglires; Pri
Cercopithecidae; Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hypothetical protein.
Macaca fascicularis (Crab
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-DEC-2001 (TrEMBLrel. 19, 01-DEC-2001 (TrEMBLrel. 19, 01-OCT-2003 (TrEMBLrel. 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US DOB Joint Genome Institute (JGI-ORNL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=2CP-C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEOTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9541;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL/GenBank/DDBJ whole
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                                                                                                                                                                                                                                                                                                                       14;
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                                                                                                                                                                                                                                                     2 SPRHLSESSGKPLSTKQEASKPPRGCPQANRGV 34 | | : | : | : | : | : | | | | | : | 1
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688 AA; 75
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                            (TrEMBLrel.
                                                                      (TrEMBLrel.
                                                                                                                     PRELIMINARY;
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Euarchontoglires; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EAL78484.1; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           75748 MW;
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22,
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ata; Craniata; Vertebrata; Euteleostomi;
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Last annotation updat
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                                                                        Created)
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Pred. No.
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Q611M2 CAEER
ID Q611M2 CAEER
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DR GO; GO:O
DR GO; G
       RESULT 15
Q60KX3 CAEBR
Q1D Q60KX3_CAEBR PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        preliminary data.

C EMBL; CAACO1000080; CAE70437.1; -; Genomic DNA.

R GO; GO:0000151; C:ubiquitin ligase complex; IEA.

R GO; GO:0004872; F:metal ion binding; IEA.

R GO; GO:0004872; F:metal ion binding; IEA.

R GO; GO:0008270; F:zinc ion binding; IEA.

R GO; GO:0008270; F:zinc ion binding; IEA.

R GO; GO:0016567; P:protein ubiquitination; IEA.

R GO; GO:0016567; P:protein ubiquitination; IEA.

R InterPro; IPR001841; Znf_RING.

R PROSITE; PS50089; ZF_RING_2; 1.

M Hypothetical protein; Metal-binding; Nuclear protein; Zinc; Zinc-finger:

SEQUENCE 732 AA; 84426 MW; F62612AB8A1BABA9 CRC64;
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Best Local (
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Best Local (
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Ensembl; ENSG00000173320; Homo sapier
NON TER 1 1
SEQUENCE 950 AA.
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Caenorhabditis briggsae.
Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Name=CBG17014;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein CBG17014.
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Q611M2;
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Nagase T., Kikuno R., Ishikawa K.-I., Hirosawa M., Ohara O.;
"Prediction of the coding sequences of unidentified human genes. XVI
The complete sequences of 150 new cDNA clones from brain which code
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Name=KIAA1392;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.
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Res. 7:65-73(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         663
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; Pred. No. 46;
4; Mismatches
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Pred. No. '
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entry which is
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Job time: 15.7493 secs
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Best Local
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25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                  preliminary data.

EMBL; CAACO1000197; CabE6229.1; -; Genomic_DNA.

GO; GO:0000151; C:ubiquitin ligase complex; IEA.

GO; GO:00046872; F:metal ion binding; IEA.

GO; GO:0004842; F:ubiquitin-protein ligase activity; IEA.

GO; GO:0008270; F:zinc ion binding; IEA.

GO; GO:0008270; F:zinc ion binding; IEA.

GO; GO:0016567; P:protein ubiquitination; IEA.

GO; GO:0016567; F:RING_2; 1.

RYSOTHE:Loal protein; Metal-binding; Nuclear protein; Zinc;

Zinc-finger.
                                                                                                                                                                                                                                                                                                                                           The C.briggsae Sequencing Consortium,
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
-i- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hypothetical protein Name=CBG23864;
                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Caenorhabditis briggsae.
                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=6238;
                                                       582
                                                                                                                13;
                                                                                    Α,
                                                                                                                              Similarity
                                                         RSTSESSSSPESEMPESSKESQSCPKCSR
                                                                                    RHLSESSGKPLSTKQEASKPPRGCPQANR 32
                                                                                                                                                                        930 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (TrEMBLrel. 28, Created)
(TrEMBLrel. 28, Last sequence update)
(TREMBLrel. 28, Last annotation update)
l protein CBG23864.
                                                                                                               Conservative
                                                                                                                                                                        106885 MW;
             Ψ
                                                                                                                            32.8%;
             2006,
                                                                                                                4; Mismatches
                                                                                                                              Score 62;
Pred. No.
             13:26:06
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ALIGNMENTS

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Minimum DB seq length: 0
Maximum DB seq length: 200000000
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Perfect score:
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Gapop 10.0 , Gapext 0.5
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| CGM2_6/ptodata/1/laa/5_COMB.pep:*
| CGM2_6/ptodata/1/laa/6_COMB.pep:*
| CGM2_6/ptodata/1/laa/H_COMB.pep:*
| CGM2_6/ptodata/1/laa/PCTUS_COMB.pep:*
| CGM2_6/ptodata/1/laa/PCTUS_COMB.pep:*
| CGM2_6/ptodata/1/laa/backfiles1:pep:*
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84
424
630
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84
343
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(c) 1993 - 2006 Biocceleration Ltd
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                                  US-10-278-547-47
US-09-050-516-42
US-10-278-547-42
US-10-278-547-42
US-09-270-767-42674
US-09-270-767-4218
US-09-248-796A-17640
US-09-149-476-555
US-09-270-767-4224
US-09-270-767-4243
US-09-270-767-4243
US-09-270-767-4243
US-09-252-991A-22080
US-09-417-555
US-10-115-123-455
US-10-125-428970
US-09-252-991A-28970
US-09-417-264-41
US-09-252-991A-20779
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US-10-278-547-43
US-09-050-516-47
US-10-278-547-47
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Sequence 43, Appl
Sequence 47, Appl
Sequence 47, Appl
Sequence 42, Appl
Sequence 42, Appl
Sequence 42, Appl
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                                     32256, A
44243, A
42243, A
22080, A
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450, Appl
41, Appl
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17640, A
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42674, A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4
                        CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UMMBER: 08/828,85
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPHONE: 847/938-2623
                                                                                                                                                                                                                                                    STATE: IL
COUNTRY: USA
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
 TELEX:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                          APPLICANT: HAYDEN, MARK
APPLICANT: KLASS, MICHAEL R.
APPLICANT: KLASS, MICHAEL R.
APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
TITLE OF INVENTION: TRACT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                44.
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COLDITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
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Result

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RESULT 2
US-10-278-547-43
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Patent No. 6660834
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA
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                                                                                                               TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
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LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6665.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 43:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                   TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                        TELEFAX: 847/938-2623
                                                                                                                                                                                          TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Abbott Park
                                                                                           LENGTH: 36 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: USA
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INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
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Pred. No. 8.6e-20;
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Query Match 100.0%; Score 189; DB 2; Best Local Similarity 100.0%; Pred. No. 7.3e-19; Matches 36; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patent No.
                                                                                                                                      TELEX:
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
SEQUENCE C15 mino acids
                                                                                                                                                                                                                                CLASSIFICATION:
CLASSIFICATION:
PRIOR APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/JOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: STROUPE, S
TITLE OF INVENTION: F
TITLE OF INVENTION: T
TITLE OF INVENTION: T
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOCTWARE: PASKSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                   MOLECULE TYPE: No. 6627414e
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                   TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                  STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                      TELEFAX: 847/938-2623
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSETT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
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                                                                                                      linear
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REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 189; DB 2;
100.0%; Pred. No. 8.6e-20;
tive 0; Mismatches 0;
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                                                                                                                                                                                       47:
                                Length 215;
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Patent No. 6660834
GENERAL INFORMATION:
                                                                                Query Match
Best Local Similarity
Matches 36; Conserv
                                                                                                                                                                                                                                                                                                            TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARB: FASICSEO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION CATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
                                                                                                                                                                                    TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                          MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                 STRANDEDNESS: single
                                                                                                                                                                                                                                                                         TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/10278547
                                                                                                                                                                                                                                                                                        LENGTH: 215 amino acide
                                                                                100.0%; Score 189; DB 2; ilarity 100.0%; Pred. No. 7.3e-19; Conservative 0; Mismatches 0;
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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                                                                                                                         Length 215;
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RESULT 5

US-10-278-547-42

Sequence 42, Applicati Patent No. 6660834 GENERAL INFORMATION:

Application US/10278547

APPLICANT:

BILLING-MEDEL, PATRICIA COHEN, MAURICE

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US-09-050-516-42
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RESULT 6
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                                                                                                                                                Query Match
Best Local S
                                                                                                                                  Matches
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PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/828,85
PILING DATE: 31.MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6055
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPHONE: 847/938-2623
                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 679 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
TITLE OF INVENTION: FOR DETECTING DISEASES OF TH
TITLE OF INVENTION: TRACT
TITLE OF INVENTION: TRACT
NUMBER OF SEQUENCES: 49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE . ADDRESS:
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ZIP: 60064-3500
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                    LENGTH: 679 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Abbott Park
                                                                                                                                                                                                                                              STRANDEDNESS: 811
TOPOLOGY: linear
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5. 6627414
                                                      465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                    1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                              h 100.0%; Score 189; DB 2; Similarity 100.0%; Pred. No. 2.9e-18; 36; Conservative 0; Mismatches 0;
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
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KLASS, MICHAEL R.
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                                                                                                                                                                                                                                                                    single
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                                                                                                                                                                          Length 679;
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RESULT 7
US-09-270-767-57993
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GENERAL INFORMATION:
APPLICANT: Homburger et al.
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 57993
                                                                                                                                                                             Patent No. 6703491
GENERAR TOTAL
                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
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INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER: US/09/050,516

FILING DATE: «Unknown»

APPLICATION NUMBER: 08/828,855

PILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 665.US.P1

TELEPHONE: 847/935-1729

TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
MOLECULE TYPE: No. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARE: FastISEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
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                                                                                                                                                                                                                                                                                                                       465
                                                                                                                                                                                                                                                                                                                                                                                                       36;
                                                                                                                                                                                                                                                                                                                                                            1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                       MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Abbott Park
STATE: IL
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INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
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                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 189; DB 2; 100.0%; Pred. No. 2.9e-18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 679;
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TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-57993
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US-09-270-767-42674
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                                                                                                                                   US-09-686-583B-12
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US-09-270-767-42674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Homburger et al.

TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 42674
LENGTH: 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 12, Application US/09686583B Patent No. 6576750 GENERAL INFORWATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 42674, Application US/09270767 Patent No. 6703491 GENERAL INFORMATION:
                                                                                                                                                                                                        SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                           Matches
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Best Local
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                                                                                                                                                                                                                                                            APPLICANT: Gaines, Patrick J.
APPLICANT: Wisnewski, Nancy
TITLE OP INVENTION: FLEA PERITROPHIN NUCLEIC ACID MOLECULES, PROTEINS AND USES THEREOF
FILE REFERENCE: FC-6-C2
CURRENT APPLICATION NUMBER: US/09/686,583B
CURRENT FILING DATE: 2000-10-11
PRIOR APPLICATION NUMBER: 09/543,668
PRIOR PILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: 60/128,704
PRIOR APPLICATION NUMBER: 60/128,704
PRIOR APPLICATION NUMBER: 60/128,704
PRIOR PILING DATE: 1999-04-09
                                                                                                                                                                                                                         SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 68
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Heska Corporation
APPLICANT: Gaines, Patrick
APPLICANT: Wisnewski, Nancy
                                                                                                                                               TYPE: PRT ORGANISM: Ctenocephalides felis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT ORGANISM: Drosophila melanogaster FEATURE:
                                                                                                                                                                                         LENGTH: 453
                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 / Match 30.7%;
Local Similarity 48.3%;
hes 14; Conservative
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SESSGKPLSTKQEASKPPRGCPQANRG 33
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Pred. No. 1.1;
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                                                  US-09-149-476-555, Application  
, Sequence 555, Application  
, Patent No. 6420526  
, GENERAL INFORMATION:
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Best Local Similarity
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LENGTH: 1036
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LENGTH: 305
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CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Candida albicans
.09-248-796A-17640
                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR BILING DATE: 1998-08-13
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CURRENT PILING DATE: 1999-02-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PPLICANT:
APPLICANT: ROSEN Et al. 
TITLE OF INVENTION: 186 
FILE REFERENCE: PZ002P1
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tent No. 674713
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                                                                                                                                                                              144 RILSQSSGKPVSLRETVSKIYR----EQGIV 170
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                                                                                    Application US/09149476
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ilarity 43.8%;
Conservative
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Gregory J.
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Pred. No. 12;
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Pred. No. 38;
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                                                                                                            APPLICATION NUMBER: 60/043,568
                                                                          APPLICATION NUMBER: 60/043,314
                                                                                                                                                                 FILING DATE: 1997-05-23
                                                                                                                                                                                 APPLICATION NUMBER: 60/047,601
                                                                                                                                                                                                     APPLICATION NUMBER: 60/047,632 FILING DATE: 1997-05-23
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                                       APPLICATION NUMBER: 60/043,569
                                                                                                                                 FILING DATE:
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FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,311
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                                                         LING DATE: 1997-04-1
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Best Local S
Matches 12
Sequence 32256, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: MAIC J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT APPLICATION NUMBER: US 60/074,788

PRIOR PILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27
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ER FILLING DATE: 1997-08-22
ER APPLICATION NUMBER: 60/056,862
ER FILLING DATE: 1997-08-22
ER APPLICATION NUMBER: 60/056,887
ER FILLING DATE: 1997-08-22
ER FILLING DATE: 1997-08-22
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FR APPLICATION NUMBER: 60/056,876

FR FILING DATE: 1997-08-22

FR APPLICATION NUMBER: 60/056,881

FR FILING DATE: 1997-08-22

FR FILING DATE: 1997-08-22

FR FILING DATE: 1997-08-22
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APPLICATION NUMBER: 60/
FILING DATE: 1997-10-02
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APPLICATION NUMBER: 60/
FILING DATE: 1997-09-05
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APPLICATION NUMBER: 60/056,632
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APPLICATION NUMBER: 60/047,614
FILING DATE: 1997-05-23
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APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/056,884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,664
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/049,610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1997-09-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/057,669
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                                                                                                                                                                                                                                                                                                                                                                                     ch 28.8%;
l Similarity 42.9%;
l2; Conservative
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                                                                                                                                                                                                                                                                                                                  APRHYXGSSGEEVGV-QEGDPSPQGXPQ 385
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Pred. No. 18;
4; Mismatches
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FILING DATE:

1997-08-22

APPLICATION NUMBER: 60/056,878 FILING DATE: 1997-08-22 APPLICATION NUMBER: 60/056,662

FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,630
FILING DATE: 1997-08-22 FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,893

1997-08-22

APPLICATION NUMBER: 60/056,872

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APPLICATION NUMBER: 60/056,877 FILING DATE: 1997-08-22 APPLICATION NUMBER: 60/056,889

PILING DATE: 1997-06-06
APPLICATION NUMBER: 60/056,886 APPLICATION NUMBER: 60/048,974

FILING DATE: 1997-08-

EARLIER

FILING DATE:

FILING DATE: 1997-04-11

APPLICATION NUMBER: 60/043,315 APPLICATION NUMBER: 60/043,672

1997-04-11

**EARLIER** 

APPLICATION NUMBER: 60/043,313

1997-04-

1997-04-3

NUMBER: 60/043,312 NUMBER: 60/043,669 NUMBER: 60/043,674

1997-04-1 1997-04-11 1997-04-11

FILING DATE: FILING DATE:

EARLIER

APPLICATION I

NUMBER: 60/047,588: 1997-05-23

APPLICATION NUMBER: 60/047,585 FILING DATE: 1997-05-23

FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,599
FILING DATE: 1997-05-23

APPLICATION NUMBER: 60/047,595

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ER APPLICATION NUMBER: 60/056,864

ER FILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/056,631

ER FILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/056,845

ER FILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/056,892

ER APPLICATION NUMBER: 60/056,892

ER APPLICATION NUMBER: 60/057,761

ER FILING DATE: 1997-08-22

ER FILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/057,761

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ER FILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/056,911

ER FILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/056,636

ER FILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/056,874

ER APPLICATION NUMBER: 60/056,910

ER PILING DATE: 1997-08-22

ER APPLICATION NUMBER: 60/056,910

ER FILING DATE: 1997-08-22

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FILING DATE:

APPLICATION NUMBER: 60/056,879

1997-08-22

PILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,894

APPLICATION NUMBER: 60/056,880

FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,888
FILING DATE: 1997-08-22 FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,903
FILING DATE: 1997-08-22 APPLICATION NUMBER: 60/056,882 FILING DATE: 1997-08-22 APPLICATION NUMBER: 60/056,637 FILING DATE: 1997-08-22

Job time : 5.99466 secs

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US-09-270-767-59667
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US-09-252-991A-32256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; ORGANISM: Drosophila melanogaster US-09-270-767-59667
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                                                                                                                                             ; ORGANISM: Drosophila melanogaster ; FEATURE; OTHER INFORMATION: Xaa means any amino acid US-09-270-767-44243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS:
SEQ ID NO 32256
LENGTH: 736
TYPE: PRT
                                                                                                                                                                                                                                TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 44243
LENGTH: 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 16; Conserv
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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 59667
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Best Local Similarity 31.1%;
                                                                     Query Match
Best Local Similarity
Matches 16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              76 SPTPVSEDQPRPQAGRTRFETDDRSVATHQEAAAHRQGCPQRYPG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    45 RHRAEKAYKCDICSMPLATKODLSLHMRHHKNDRRYKCDKCNKGFVR 91
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                                  4 RHLSESSGK-----PLSTKQEASKPPR-----GCPQANRGVVR 36
RHRAEKAYKCDICSMPLATKODLSLHMRHHKNDRRYKCDKCNKGFVR 91
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                                                                         Conservative
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                                                                           6, Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. 6.3;
                                                                                        Pred. No. 16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 2; Length 116;
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                                                                           11;
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Search completed: March 3, 2006, 13:38:52

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OM protein - protein search, using sw model

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.

March 3, 2006, 14:09:14; Search time 15.8134 Seconds (without alignments) 951.209 Million cell updates/sec

Run on:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

1867569 seqs, 417829326 residues

Searched:

Title: Perfect score:

US-10-646-873-43 189

MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36

Sequence:

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28 56.5 29.9 71 4 US-10-437-963-122399 Sequence 122399,
29 56.5 29.9 231 4 US-10-767-701-38778 Sequence 318778, A
30 56 29.6 127 4 US-10-425-115-315597
31 56 29.6 127 4 US-10-425-115-314980 Sequence 314980, A
32 56 29.6 179 4 US-10-437-963-198615
33 56 29.6 449 4 US-10-437-963-198615
35 56 29.6 1104 4 US-10-437-963-119677 Sequence 198615, A
36 56 29.6 1416 6 US-10-425-115-304540 Sequence 179677, A
37 56 29.6 1104 4 US-10-437-963-114194 Sequence 179677, Sequence
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RESULT 1

US-09-050-516-43

US-09-050-516-43

Sequence 43, Application US/09050516

Patent No. US20010010904A1

GENERAL INFORMATION:
APPLICANT: COLEN, MAURICE
APPLICANT: COLEN, MAURICE
APPLICANT: COLENTTS, TRACEY L.
APPLICANT: GORDON, JULIAN
APPLICANT: GORDON, JULIAN
APPLICANT: HODGES, STEVEN C.
APPLICANT: HODGES, STEVEN C.
APPLICANT: KLASS, MICHAEL R.
APPLICANT: KLASS, MICHAEL R.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
TITLE OF INVENTION: TRACT
NUMBER OF SEQUENCES: 49

CORRESPONDENCE ADDRESS:

|                                       | •••.                  |                         |                                |                                     |                             |                         |                             | ***                      | '                              |                         | •               |              |                                   | ٠                         |   |                       |                          |                       | -                       | _               |              |           |                   | _                            | ••                             |                         |                         |                           |               |   |
|---------------------------------------|-----------------------|-------------------------|--------------------------------|-------------------------------------|-----------------------------|-------------------------|-----------------------------|--------------------------|--------------------------------|-------------------------|-----------------|--------------|-----------------------------------|---------------------------|---|-----------------------|--------------------------|-----------------------|-------------------------|-----------------|--------------|-----------|-------------------|------------------------------|--------------------------------|-------------------------|-------------------------|---------------------------|---------------|---|
| TELEX: INFORMATION FOR SEQ ID NO: 43: | TELEPAX: 847/938-2623 | TELEPHONE: 847/935-1729 | TELECOMMUNICATION INFORMATION: | REFERENCE/DOCKET NUMBER: 6065.US.P1 | REGISTRATION NUMBER: 35,441 | NAME: Becker, Cheryl L. | ATTORNEY/AGENT INFORMATION: | FILING DATE: 31-MAR-1997 | APPLICATION NUMBER: 08/828,855 | PRIOR APPLICATION DATA: | CLASSIFICATION: | FILING DATE: | APPLICATION NUMBER: US/09/050,516 | CURRENT APPLICATION DATA: | SOFTWARE: FastSEQ for Windows Version 2.0 | OPERATING SYSTEM: DOS | COMPUTER: IBM Compatible | MEDIUM TYPE: Diskette | COMPUTER READABLE FORM: | ZIP: 60064-3500 | COUNTRY: USA | STATE: IL | CITY: Abbott Park | STREET: 100 Abbott Park Road | ADDRESSEE: Abbott Laboratories | CORRESPONDENCE ADDRESS: | NUMBER OF SEQUENCES: 49 | TITLE OF INVENTION: TRACT | OF INVENTION: | TITLE OF INVENTION: REAGENTS AND METHODS USEFUL |

| Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. | Database: Published_Applications_AA_Main:* 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:* 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:* 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:* 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:* 5: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:* 6: /cgn2_6/ptodata/1/pubpaa/US11_FUBCOMB.pep:* | Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries | Minimum DB seq length: 0<br>Maximum DB seq length: 2000000000 | Total number of hits satisfying chosen parameters: 1867569 |
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## SUMMARIES

| Result 100 11 11 11 11 11 11 11 11 11 11 11 11 | Score<br>189<br>189<br>189<br>189<br>189<br>189<br>189<br>59.5 | Query Match Le: 100.0 | Length DB 36 3 36 4 215 3 215 4 215 4 217 4 217 4 218 4 217 4 218 4 218 4 | U           | -109-1-<br>-109-1-<br>-109-279-1-<br>-109-646-1-<br>-109-646-1-<br>-109-646-1-<br>-100-646-1-<br>-100-428-1-<br>-100-428-1-<br>-100-428-1-<br>-100-428-1-<br>-100-428-1-<br>-100-428-1-<br>-100-428-1- | 7-4-43<br>3-4-43<br>3-4-47<br>3-4-47<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3-4-42<br>3- |
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|  | 189<br>189<br>189<br>189<br>189                                |   |   | *****       | -10-278 -10-646 -09-050 -10-278 -10-646 -09-050  |  |
|  | 189<br>189<br>65   |   |   | متا حثا جثا | -10-278<br>-10-646<br>-10-425  | -42<br>-42<br>-31134   |
| 2 E  | 63   | 31.<br>31.  |   | -E- U1      | -10-756-<br>-10-425-   | 9-5275<br>5-30828  |
| 1 1<br>4 3                                     | 59.5<br>59   | 31.5<br>21.2  |   | 44          | -10-425-<br>-10-437-   | 5-23861<br>3-11392   |
| 15   | 7 UT   | 30.7  |   |             | -10-425-   | 5-27046<br>4-48907   |
| 17   | 58   | 30.7  |   | w           | -09-991-   |  |
| 18<br>19                                       | 5 8<br>5 8   | 30.7  |   | M &         | -10-401-<br>-10-978-   | 9  |
| 20<br>21                                       | 5 8<br>5 8   | 30.7<br>30.7  | 483<br>1219   | 40          | -11-   | 963-<br>143-   |
| 22<br>23                                       | 57<br>57   | 30.2<br>30.2  |   | 44          | US-10-029-<br>US-10-425-   | 386<br>115   |
| 2 2<br>5 4                                     | 57<br>5 <b>7</b>   | 30.2<br>30.2  |   | 44          | -10-425<br>-10-365   | -115-240156<br>-742-20   |
| 26<br>27                                       | 57<br>57   |   | 620<br>737  | 44          | -10-767<br>-10-437   | 701<br>963   |
|  |  |   |   |             |  |  |

SEQUENCE CHARACTERISTICS:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 43, Application Publication No. US20030 GENERAL INFORMATION:
APPLICANT: BILL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                         TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: 11
MOLECULE TYPE:
                                                                                                                                                         PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/050,516

APPLICATION NUMBER: 08/828,855

APPLICATION NUMBER: 08/828,855

PILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REFERENCE/DOCKET NUMBER: 6065.US.P1

TELEPHONE: 847/938-1729

TELEPHONE: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
TOPOLOGY: linear MOLECULE TYPE: No. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 43:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US20030082619A1
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3: No. US20010010904Ale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GORDON, JULIAN
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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Pred. No. 1.2e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                     6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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; TOPOLOGY: Inear;; MOLECULE TYPE: No. US20040043406Ale;; SEQUENCE DESCRIPTION: SEQ ID NO: 43: US-10-646-873-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-646-873-43; Sequence 43, Application US/10646873; Publication No. US20040043406A1
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Query Match 100.0%; Score 189; DB 4;
Best Local Similarity 100.0%; Pred. No. 1.2e-16;
Matches 36; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                       TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION VUMBER: US/09/050,516
FILING DATE: 30-WAR-1998
APPLICATION NUMBER: US/09/050,516
FILING DATE: 31-WAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: HGC FOR TARY) 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
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HODOGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                  NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS: ABDORT Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                                                                                                                              TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
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COLPTITS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 189; DB 4;
100.0%; Pred. No. 1.2e-16;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRACEY L.
                                     DB 4; Length 36;
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  Indels
  0
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  Gaps
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  0;
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US-09-050-516-47
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                        श
                                                                                                                       ; STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: No. US20010010904Ale US-09-050-516-47
                                                          Query Match
Best Local Similarity
Matches 36; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatibl
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ent No.
                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 08/828,8
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  47
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                   MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
   MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100 Abbott Laboratories
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RUSSELL, JOHN C.
STROUPE, STEPHEN D.
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                                                          100.0%;
ilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GRANADOS,
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MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                            08/828,855
                                                                                                                                                                                                                                    47:
                                                          Score 189; DB 3; I
Pred. No. 8.8e-16;
Pred. No. 8.8e-16;
                                                              <u>.</u>
                                                                                                                                                                                                                                                                                                                 6065.US.P1
                                                                                           Length 215;
                                                               Indels
                                                              0
                                                              Gaps
                                                               0
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RESULT 5

US-10-646-873-47
; Sequence 47, Application; Publication No. US20040; GENERAL INFORMATION:

Application US/10646873 vo. US20040043406A1

APPLICANT:

BILLING-MEDEL, PATRICIA COHEN, MAURICE

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US-10-278-547-47; Sequence 47, Application US/10278547; Publication No. US20030082619A1
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RESULT 6
                                                                                                                                                       Query Match
Best Local S
                                                                                                                                    Matches
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                                                                                                                                                                                                                                                                                                                                                     TELEX: «Unknown»
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: - CUNHOWND APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FABTSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                         1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                 1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                      36;
                                                                                                                                  h 100.0%; Score 189; DB 4;
Similarity 100.0%; Pred. No. 8.8e-16;
36; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Abbott Park
                                                                                                                                                                                                                                                                                             STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                         TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HAYDEN, MAKK
HODGES, STEVEN C.
KLASS, MICHAEL R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
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                                                                                                                                                                         DB 4;
                                                                                                                                                                           Length 215;
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                                                                                                                                          Gaps
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US-09-050-516-42
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                                                                                                                                     Sequence 42, Application US/09050516
Patent No. US20010010904A1
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                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                          GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
              APPLICANT:
                                                APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNAEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear MOLECULE TYPE: No. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                      36;
                                                                                                                                                                                                                                                                      1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                              MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: IL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH: 215 amino acids
              GORDON, JULIAN
GRANADOS, EDWARD N.
                                              BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                      Conservative
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KLASS, MICHAEL R.
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                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                                                                                                                                                                                                   Score 189; DB 4;
Pred. No. 8.8e-16;
Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6065.US.P1
                                                                                                                                                                                                                                                                                                                                                      Length 215;
                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                      Gaps
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RESULT 8
US-10-278-547-42
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Best Local Similarity
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION UMBER: 08/828
APPLICATION UMBER: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,44
                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
TITLE OF INVENTION:
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                   APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
                                                                        NUMBER OF SEQUENCES:
                                                                                                                             TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                         465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
GRANADUS,
HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCKVIL, JON D.
OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3: Abbott Laboratories
100 Abbott Park Road
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STROUPE, STEPHEN D.
STROUPE, STEPHEN D.
VENTION: FRAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 189; DB 3; ilarity 100.0%; Pred. No. 3.1e-15; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KRATOCHVIL, JON D. ROBERTS-RAPP, LISA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KLASS, MICHAEL R.
                                                                                                                                                                                                                                     FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
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                                                                                                                                                                                                                                                                                                                                                                     Sequence 42, Appublication No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: DOS
SOPTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: No. US20030082619A1e SEQUENCE DESCRIPTION: SEQ ID NO: 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                      TITLE OF
                                                                            NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 679 amino acids
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                     Application US/10646873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                      KRATOCHYL, JON D.
KRATOCHYL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                 US20040043406A1
                                                                                                                                                                                                                                                                BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
                                                                                                                                                                      HODGES, STEVEN C.
                                                                                                                                                                                                          HAYDEN, MARK
                                                                                                                                                                                                                                  GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                                                                                                                                      JULIAN
                                                                                                                                                                                                                                  EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 189; DB 4; Pred. No. 3.1e-15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 4; Length 679;
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TOPOLOGY: linear property of the property of t
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US-10-425-115-311348
                                                                                                                                                                ; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_47002C.1.pep
US-10-425-115-311348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 311348
LENGTH: 88
TYPE: PRT
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Best Local Similarity
Matches 36; Conserv
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Query Match
Best Local Similarity
Matches 11; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
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INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                     NAME/KEY: unsure
LOCATION: (1)..(88)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Zea mays
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NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELECHONE: 847/935-1729
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/09/050,516 FILING DATE: 30-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 08/828,855 FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: 847/938-2623
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ilarity 100.0%;
Conservative (
                                       34.4%; Score 65; DB 4; Length 88; 47.8%; Pred. No. 1.7;
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Pred. No. 3.1e-15;
); Mismatches 0;
        Mismatches
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        10; Indels
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             Gaps
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RESULT 13
US-10-425-115-238611
Sequence 238611, Application US/10425115
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US-10-756-149-5275
; Sequence 5275, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
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US-10-425-115-308283
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US-10-756-149-5275
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APPLICANT: Zlotnik, Albert
TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
FILE REFERENCE: file
CURRENT APPLICATION NUMBER: US/10/756,149
CURRENT FILING DATE: 2004-01-12
NUMBER OF SEQ ID NOS: 5818
SOFTWARE: PREENTIN version 3.2
SEQ ID NO 5275
LENGTH: 950
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Nucleic Acid Molecules TITLE OF INVENTION: Plants FILE REFERENCE: 38-21[53222]B CURRENT APPLICATION NUMBER: US/10/425,115 CURRENT FILING DATE: 2003-04-28 NUMBER OF SEQ ID NOS: 369326 SEQ ID NO 308283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 308283, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
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Best Local Similarity 42.4%;
                                                                                                                                                                           Matches
                                                                                                                                                                                       Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(494)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                         OTHER INFORMATION: Clone ID: MRT4577_44220C.1.pep
                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 494
TYPE: PRT
                                                                                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           663 SDRQVPHSSREPVGHKEESPKGPGGGPAASGGV 695
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                                                                                                                                        2 SPRHLSESSGKPLSTKQEASKPPRGCPQANR 32
                                                                                                                                                                                           Similarity
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                                                                                                     SPRRISPSPTPAPSTPRPASPPPSNAPSSKR 38
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                                                                                                                                                                                       31.7%;
                                                                                                                                                                       ; Score 60; DB;
; Pred. No. 49;
2; Mismatches
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                                                                                                                                                                                                           Length 494;
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TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(53221)B CURRENT FILE APPLICATION NUMBER: US/10/437,963; CURRENT FILING DATE: 2003-65-14 NUMBER OF SEQ ID NOS: 204966 SEQ ID NO 113926 LENGTH: 344

TYPE: PRT
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LENGTH: 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Publication No. US20040214272A1 GENERAL INFORMATION:
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                                                                        Matches
                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: La Rosa, Thomas
APPLICANT: Kovalic, David
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Zea mays
                                                                                                                                                         FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_17668C.1.pep
                                                                                                                                                                                                FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(344)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                                   ORGANISM: Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31.5%;
Local Similarity 50.0%;
les 13; Conservative
                                                                                       Local
 135
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                                                                                       Similarity
PRHOEAPXGAPLRRRTSPAPPRPSPXSTR 164
                                     PRHLSESSGKPLSTKQEASKPPRGCPQANR 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRHLSESSGKPLSTKQEASKP-PRGC 27
                                                                        Conservative
                                                                                       31.2%;
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                                                                        4; Mismatches
                                                                                         Score 59; DB 4; Length 344; Pred. No. 44;
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                                                                        Indels
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RESULT 15
US-10-425-115-270466
J. Sequence 270466, Application US/10425115
Publication No. US20040214272A1

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GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Kovalic, David K.
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(3222)B
CURRENT FILING DATE: 2003-04-28
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Sequence 998, App
Sequence 3474, Ap
Sequence 340, App
Sequence 10, Appl
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Sequence 2622, Appli
Sequence 2, Appli
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Sequence 14, Appli
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| 2102              | 1823              | 951              | 702                 | 338               | 326               | 279                  | 107               | 107               | 107               | 104               | 68                 | 44                 | 355                | 1839               | 885               | 845               | 837               | 388              | 327                |  |
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| US-10-995-561-990 | US-10-995-561-988 | US-11-121-438-14 | US-11-098-686-10194 | US-11-207-626A-33 | US-10-330-773-169 | . US-10-878-556A-157 | US-10-330-773-177 | US-10-330-773-175 | US-10-330-773-173 | US-10-330-773-167 | US-10-467-657-4718 | US-10-467-657-2398 | US-10-467-657-5428 | US-11-087-099-9631 | US-10-912-971-2   | US-11-094-519A-42 | US-11-094-519A-43 | US-10-858-730-83 | US-09-978-360A-750 |  |
| Sequence 990, App | Sequence 988, App |                  | 1015                |                   | . •               | Sequence 157, App    | •                 | •                 | •                 | Sequence 167, App | æ                  | Sequence 2398, Ap  |                    | Sequence 9631, Ap  | Sequence 2, Appli | :-                | Sequence 43, Appl | 3 3              | $\sim$             |  |

## ALIGNMENTS

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| PELLING CLING CLIN |  |  | RESULT 1  US-10-055-877-203  SEQUENCE 203, A:  Publication No.  GENERAL INFORMA  APPLICANT: PA  APPLICANT: PA  APPLICANT: Zh   |
| EFERENCE: 21 T APPLICATION I APPLICATION I FILING DATE FILING DATE APPLICATION I FILING DATE: APPLICATION I FILING DATE: APPLICATION I APPLICATION I APPLICATION I FILING DATE: APPLICATION I FILING DATE: APPLICATION I   | Taupie<br>Pena,<br>Shenoy<br>Li, Li<br>Casman<br>Boldog<br>VENTION   | Guo, X. Zerhus Andrew Mezes, Pattur. Burges Bisen, Wolenc Baumga Shimke Gusev, Vernet  | SULT 1 -10-055-877-203 Sequence 203, Applic Publication No. US20 GENERAL INFORMATION: APPLICANT: DeCristo APPLICANT: Tcherne APPLICANT: Tcherne APPLICANT: Anderso APPLICANT: Anderso APPLICANT: Gerlach APPLICANT: Kekuda   |
| CURRENT APPLICATION N<br>CURRENT FILING DATE:<br>PRIOR APPLICATION NUM<br>PRIOR FILING DATE: 20<br>PRIOR PILING DATE: 20<br>PRIOR APPLICATION NUM<br>PRIOR FILING DATE: 20<br>PRIOR FILING DATE: 20<br>PRIOR FILING DATE: 20<br>PRIOR APPLICATION NUM<br>PRIOR PILING DATE: 20   | Taupier Pena, C Shenoy, Li, Li Casman, Boldog, INVENTION:  | Guo, Xi Guo, Xi Zerhuse Andrew, Mezes, Pattura Burgess Bisen, Wolenc, Wolenc, Baumgar Baumgar Shimket  | 03 Applicati Applicati o. US20050 MATION: eCristofar eCristofar Paddyaru, Paddyaru, Tchernev, Zhong, Mei Anderson, Ballinger, Gerlach, Ki Spytek, Ki Kekuda, Ra  |
| FILE KREEKENUE: 2.4902-231 CURRENT APPLICATION NUMBER: PRIOR APPLICATION NUMBER: 2001-0 PRIOR FILING DATE: 2001-0 PRIOR FILING DATE: 2001-0 PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: PRIOR FILING DATE: 2001-0 PRIOR FILING DATE: 2001-0 PRIOR APPLICATION NUMBER:  | Taupier Jr., Pena, Carol Shenoy, Sure Li, Li Casman, Stac Boldog, Fere ENTION: Nove  | Guo, Xiaojia<br>Zerhueen, Bry<br>Zerhueen, Bry<br>Andrew, David<br>Mezes, Peter<br>Patturajan, M<br>Burgess, Caht<br>Eisen, Andrew<br>Wolenc, Adam<br>Baumgartner,<br>Shimkete, Ric<br>Gusev, Vladim | , Application   , Application   No. US20050288 RMATION: DeCristofaro,   DeCristofaro,   Padigaru, Mux Miller, Charl Tchernev, Vel Zhong, Mei Anderson, Dav Ballinger, Ro Gerlach, Vale Spytek, Kimbe Ratelli, Luca Kekuda. Rames   |
| CURRENT APPLICATION NUMBER: UI CURRENT FILING DATE: 2002-01 FRIOR APPLICATION NUMBER: 60/ PRIOR FILING DATE: 2001-01-19 PRIOR FILING DATE: 2001-01-23 PRIOR APPLICATION NUMBER: 60/ PRIOR FILING DATE: 2001-01-23 PRIOR APPLICATION NUMBER: 60/ PRIOR FILING DATE: 2001-01-24 PRIOR APPLICATION NUMBER: 60/ PRIOR FILING DATE: 2001-01-25 PRIOR APPLICATION NUMBER: 60/ PRIOR PILLING DATE: 2001-01-25   |  |  | Application US/10  Application US/10  O. US20050288241A1  MATION:  MATION:  MATION:  MATION:  MATION:  MATION:  MATION:  MAIler, Charles  Tcherney, Velizar  Zhong, Mei  Anderson, David  Anderson, David  Anderson, David  Ballinger, Robert  Gerlach, Valerie  Spytek, Kimberly  Rekuda, Ramesh  Kekuda, Ramesh  |
|  | Raymond<br>sh<br>ie<br>ince<br>nce   | yan d Meera Kerine W Jason Jason chard mir   | ion US/10055 0288241A1 ro, Marc Muralidhara harles Velizar i David , Robert Valerie Valerie Luca amesh   |
| TEREMENCE: 21404-251 TEREMENCE: 21404-251 TEREMENCE: 2002-01-22 APPLICATION NUMBER: 00/262,892 APPLICATION NUMBER: 60/263,598 FILING DATE: 2001-01-23 APPLICATION NUMBER: 60/263,799 FILING DATE: 2001-01-24 APPLICATION NUMBER: 60/264,117 FILING DATE: 2001-01-25 APPLICATION NUMBER: 60/264,117 FILING DATE: 2001-01-25 APPLICATION NUMBER: 60/264,139 FILING DATE: 2001-01-25 APPLICATION NUMBER: 60/264,139 FILING DATE: 2001-01-25   | Raymond h e e Ce Polypeptides  |  | SULT 1 10-055-877-203 -10-055-877-203 Sequence 203, Application US/10055877 Sequence 203, Application US/10055877 Sequence 203, Application US/20050288241A1 GENERAL INFORMATION: APPLICANT: DeCristofaro, Marc APPLICANT: Padigaru, Muralidhara APPLICANT: Miller, Charles APPLICANT: Zhong, Mei APPLICANT: Anderson, David APPLICANT: Ballinger, Robert APPLICANT: Gerlach, Valerie APPLICANT: Spytek, Kimberly APPLICANT: Spytek, Kimberly APPLICANT: Kekuda, Ramesh APPLICANT: Kekuda, Ramesh  |
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; TYPE: PRT
; ORGANISM: Orycctolagus cuniculus
US-10-055-877-203
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CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt SEQ_genes Version 1.0
SEQ ID NO 998
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APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
                                     APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 821A
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TYPE: PRT
ORGANISM: Homo sapiens
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DR FILING DATE: 2001-01-30
DR APPLICATION NUMBER: 60/272,870
DR FILING DATE: 2001-03-02
DR APPLICATION NUMBER: 60/275,990
DR FILING DATE: 2001-03-14
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DR PELICATION NUMBER: 60/275,927
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Local Similarity 53.6%;
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SATO, HIROYUKI
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                                                                                                                            TAKAO
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                                                                                                                                                                                                                                                                                                                                          ; Score 51; DB ; Pred. No. 19; 3; Mismatches
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Pred. No. 19;
                                                                                                                                                                                                                                                                                                                                                                             DB 6; Length 514;
                                                                                                                                                                                                                                                                                                                                            13; Indels
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APPLICANT: MAGALARI, KENJI

APPLICANT: MAGSUHO, YASUHIKO

TITLE OF INVENTION: NOVEL full length cDNA

FILE REPERENCE: 084335-0191

CURRENT PAPPLICATION UNMBER: US/11/072,512

CURRENT PILING DATE: 2005-03-07

PRIOR APPLICATION NUMBER: US 60/350,978

PRIOR FILING DATE: 2002-01-25

PRIOR APPLICATION NUMBER: UP 2001-379298

PRIOR FILING DATE: 2001-11-05

NUMBER OF SEQ ID NOS: 4096

SOFTWARE: Patentin Ver: 2.1

SEQ ID NO 3474

LENGTH: 732

TYPE: PRT

ORGANISM: Homo sapiens

US-11-072-512-3474
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US-11-072-512-3034
; ORGANISM: Homo sapiens
US-11-072-512-3034
                                                                                                                    APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: NOVEL full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2002-11-05
                               NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PatentIn Ver. 2.
SEQ ID NO 3034
LENGTH: 258
TYPE: PRT
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Best Local Similarity 42.4%;
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OTSUKA, KAORU
VEIICHI
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IRIE, RYOTARO
TAMECHIKA, ICH
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OTSUKI, TETSUJI
WAKAMATSU, AI
SATO, HIROYUKI
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YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
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NAGAI, KEIICHI
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YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
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IRIE, RYOTARO
TAMECHIKA, ICHIRO
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Pred. No. 28;
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Gaps

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US-11-156-084-340
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; TYPE: PRT
; ORGANISM: Prochlorococcus marinus str. MIT 9313
US-11-156-084-340
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Best Local Similarity 33.3%;
Matches 14; Conservative
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Monsanto Technology LLC
TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to
TITLE OF INVENTION: agronomically interesting phenotypes
FILE REFERENCE: (38-21)
CURRENT APPLICATION NUMBER: US/11/156,084
CURRENT FILING DATE: 2005-06-17
NUMBER OF SEQ ID NOS: 364
SOFTWARE: PatentIn version 3.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/
FILING DATE: 07/10/1997
                                                                                                                                                                                                                                 SOPTWARE: WinPatin (Ger
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS
                                                CLASSIFICATION:
APPLICATION NUMBER: 60/021640
PILING DATE: 07/12/96
ATTORNEY/AGENT INFORMATION:
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Local Similarity 50.0%;
nes 8; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PPLICANT: Schaefer, Gabriele M.
                                                                                                                                                                                             APPLICATION NUMBER: US/
FILING DATE: 07/01/2005
                                                                                                                                                                                                                                                                                                                                                                                             STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
REFERENCE/DOCKET NUMBER:
               NAME: Lee, Wendy M.
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                  DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E OF INVENTION: Gamma-Heregulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     170 ATGKPITTQQGSSPPP 185
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Genentech, Inc.
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             40,378
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Pred. No. 12;
2; Mismatches
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Pred. No.
P1043
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US-11-173-893-10
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                                                                                                  US-11-173-893-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 26.5%;
Best Local Similarity 37.9%;
                                 Matches
                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb flop
COMPUTER: 1BM PC compartible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/11/173,893
FILING DATE: 07/01/2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION
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                                                                                                                                                                              TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Schaefer, Gabriele M.
APPLICANT: Sliwkowski, Mark
                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/021640 FILING DATE: 07/12/96 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/
FILING DATE: 07/10/1997
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX:
                                                                                                                   TYPE: Am.
                                                                                                                                                                                                                                                                               NAME: Lee, Wendy M. REGISTRATION NUMBER: 40,378
                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 0 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: South San Francisco
STATE: California
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                                                                                                                                              ENGTH:
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2 SPRHLSESSGKPLSTKQEASKPPRGCPQA 30
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Amino Acid
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                                   Conservative
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                                                 26.5%;
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Pred. No. 25;
                                                  Score 50;
Pred. No.
                                     Mismatches
                                                  DB 7;
28;
                                     13;
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                                                                   Length 560;
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                                      Gaps
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293 SPLFCTTSPGYPLTSSTVYSPPPRPLPRS 321

US-11-072-512-2622

Sequence 2622, Application US/11072512 Publication No. US20060029945A1

RESULT 8

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US-11-173-893-2
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US-11-072-512-2622
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Best Local
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SEQ ID NO 2622
                                                                                                                                                                                                                                                                                                  Sequence 2, Application US/11173893
Publication No. US20060029602A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: NAGAHARI, KENJI
APPLICANT: NAGHARI, KENJI
TITLE OP INVENTION: NOVEL full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 74
TYPE: PRT
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        COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA;
                                                                                                                                                                                                                                    APPLICANT: Schaefer, Gabriele M.
APPLICANT: Sliwkowski, Mark
TITLE OF INVENTION: Gamma-Heregu.
NUMBER OF SEQUENCES: 11
                                                                                                                                                                                                  ADDRESSEE: Genentech,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           / Match 26.5%;
Local Similarity 38.1%;
les 16; Conservative
                                                                                                                                                                 ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                            132 SEASLDLQGRPVRT--EASVQPVACPQVSVISRPEPVANEGI 171
                                                                                                                   94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 SESS----GKPLSTKQEASKPPRGCPQ-----ANRGV 34
                                                                                                                                                    California
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SATO, HIROYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUGIYAMA, TOMOY
OTSUKI, TETSUJI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEKI, NAOHIKO
YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (AMAMOTO, JUN-ICHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'AMECHIKA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SONO, YUUKO
                                                                                                                                    USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RYOTARO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEIICHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SHIZUKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAKAO
                                                                                                                                                                                                                                                    Gamma-Heregulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOMOYASU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ICHIRO
US/11/173,893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 50; DB
Pred. No. 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 7; Length 749;
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                                                                    US-11-113-424-14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 10
                                                                                                                   SOFTWARE: PatentIn Ver.
SEQ ID NO 14
LENGTH: 2769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 14, Application US/11113424
Publication No. US20050260713A1
GENERAL INFORMATION:
Matches
                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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                                                                                                                                                                       PRIOR FILING DATE: 2001-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: 21402-225
CURRENT APPLICATION NUMBER: US/11/113,424
CURRENT FILING DATE: 2005-04-21
                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: 60/257,314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/256,704
PRIOR FILING DATE: 2000-12-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Gangolli et al.
TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/288,153
                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 60/311,613
                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/311,590
                                                                                                                                                                                                                                                                            RIOR APPLICATION NUMBER: 60/322,358
                                                                                                                                                                                                                                                                                                                                    RIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                RIOR FILING DATE: 2001-08-10 RIOR APPLICATION NUMBER: 60/315,617
                                                                                                                                                                                                                                                                                                                                                                                                    RIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/021640
FILING DATE: 07/12/96
ATTORNEY/ARENT INFORMATION:
NAME: Lee, Wendy M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/891,845
FILING DATE: 07/10/1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 768 amino acids
TYPE: Amino Acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX:
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REFERENCE/DOCKET NUMBER: P1
                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/294,075
                                                                                                                                                                                                                                                               FILING DATE: 2001-09-14
                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/307,506
                                                                                                                                                                                                                                                                                                FILING DATE:
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11; Conservative
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                                                                                                                                                                                                                               2001-05-29
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              26.5%;
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5; Mismatches
                Score 50; DB 7;
Pred. No. 1.6e+02;
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                                  Length 2769;
 Indels
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Gaps
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SPLFCTTSPGYPLTSSTVYSPPPRPLPRS 321

**US-11-087-099-9854** 

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US-11-087-099-9854
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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TITLE OF INVENTION: Genes and Uses for Plant Improvement FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REPERENCE: P3330R1C128
                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
                                                                                                                                                                                                                                                                                                  CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                  URRENT APPLICATION NUMBER: US/10/131,826A
                                                                                                                                                                                                                                                                                                                                                                                                                         PPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                           FILING DATE: 1997-08-26
APPLICATION NUMBER: 60/059113
FILING DATE: 1997-09-17
                                                                                                                                                                                                                APPLICATION NUMBER: 60/056974
FILING DATE: 1997-08-26
                                                      APPLICATION NUMBER: 60/059122
FILING DATE: 1997-09-17
                                                                                                                                     APPLICATION NUMBER: 60/059115
FILING DATE: 1997-09-17
                                                                                                FILING DATE: 1997-09-17
                                                                                                                APPLICATION NUMBER: 60/059117
                                     APPLICATION NUMBER: 60/059184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        166 VTQRNLGEQEGIPRLRYVDQQLRQQKALQQLGVMRQAWRPQRGLPETSVSVLR 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MSPRHLSESSGKP----------LSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Baker, Kevin P.
                                                                                                                                                                                                                                                                                                                                                                                                                  Watanabe, Colin K
Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Desnoyers, Luc
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Godowski, Paul J.
Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumae,Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sherwood, Steven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DeForge, Laura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Beresini,Maureen
                  1997-09-17
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24.5%;
                                                                                                                                                                                                                                                                                                  2002-04-24
60/059263
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Pred. No. 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 7;
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Matches

14;

Conservative

Query Match Best Local Similarity

26.2%; 28.6%;

Score 49.5; Pred. No. 28

DB 6;

Length 473;

Mismatches

Indels

19;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-973-115B-382
                                SEQ ID NO 382
LENGTH: 473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Remaining Prior Application data removed - NUMBBER OF SEQ ID NOS: 550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE: 1997-09-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maur
APPLICANT: DeForge, Laura
                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 10/028,072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 09/581,742
                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/973,115B
CURRENT FILING DATE: 2004-10-22
PRIOR APPLICATION NUMBER: US.10/145,747
PRIOR FILING DATE: 2002-05-14
                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 39870-3330R1C300C1
                                                                                                                                                                                                                                                                                                                                                                                                          WITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES WITLE OF INVENTION: SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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                                                                                                             APPLICATION NUMBER: US 60/123,090
                                                                                                                              APPLICATION NUMBER: US 60/135,736 FILING DATE: 1999-05-25
                                                                                                                                                                    FILING DATE: 2000-03-02
                                                                                                                                                                                    APPLICATION NUMBER: PCT/US00/05746
                                                                                                                                                                                                       FILING DATE: 2000-06-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             376 PRHINDSPFGTLPGSAEPPLTAVRPEGSEPPGFPTSGPRRRPGCSRKNR 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 PRHLSES-----SGKP--LSTKQEASKPP------RGCPQANR 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                Watanabe, Colin K. Wood, William I. Zhang, Zemin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gurney, Austin L.
Sherwood, Steven
Smith, Victoria
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Godowski, Paul
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Stewart,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gerritsen, Mary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/10973115B
                                                                          ID NOS: 550
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sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wei-Quiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Maureen
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Pred. No. 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              See File Wrapper or PALM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 6;
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APPLICANT: Hongjin Huang
TITLE OF INVENTION: Generic Polymorphisms Associated with
TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
FILE REFERENCE: CL001519.ORD
CURRENT FILING DATE: 2005-05-09
CURRENT FILING DATE: 2005-05-09
PRIOR APPLICATION NUMBER: US 60/568,846
PRIOR FILING DATE: 2004-05-07
PRIOR FILING DATE: 2004-05-07
PRIOR PRIOR PRICATION NUMBER: US 60/582,609
PRIOR PRIOR DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US 60/599,554
PRIOR PRIOR DATE: 2004-08-09
PRIOR FILING DATE: 2004-08-09
PRIOR FILING DATE: 2004-08-09
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US-11-124-367A-444
; Sequence 444, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 15
US-11-124-367A-442
; Sequence 442, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 34460
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 444
LENGTH: 2760
TYPE: PRT
ORGANISM: Homo sapiens
US-11-124-367A-444
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                                                                                                                                                                                                                                       ; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-367A-442
                                                                                                                              Query Match 26.2%; Score 49.5; DB 7; Best Local Similarity 39.3%; Pred. No. 1.9e+02; Matches 11; Conservative 3; Mismatches 11;
                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 34460
SOFTWARE: FRETSEQ for Windows Version 4.0
SEQ ID NO 442
LENGTH: 2803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 26.2%;
Best Local Similarity 39.3%;
Matches 11; Conservative
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TITLE OF INVENTION: Genetic Polymorphisms Associated with
TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
FILE REFERENCE: CL001519.ORD
CURRENT APPLICATION NUMBER: US/11/124,367A
CURRENT FILING DATE: 2005-05-09
PRIOR APPLICATION NUMBER: US 60/568,846
PRIOR FILING DATE: 2004-05-07
PRIOR FILING DATE: 2004-05-07
PRIOR APPLICATION NUMBER: US 60/582,609
PRIOR PILING DATE: 2004-06-25
PRIOR PILING DATE: 2004-08-09
PRIOR FILING DATE: 2004-08-09
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2419 SGGPPSSASPEVEAGPQGCATEPRPHRG 2446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           376 PRHINDSPFGTLPGSAEPPLTAVRPEGSEPPGFPTSGPRRPGCSRKNR 424
                         SGGPPSSASPEVEAGPQGCATEPRPHRG 2446
                                                        SSGKPLSTKQEASKPPRGC---PQANRG 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SSGKPLSTKQEASKPPRGC---PQANRG 33
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Pred. No. 1.9e+02;
3; Mismatches 11;
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Search completed: March 3, 2006, 14:19:03 Job time: 2.71429 secs

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Gapop 10.0 , Gapext 0.5
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146
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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geneseqp2001s:*
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    2006, 13:19:17; Search time 16.5695 Seconds
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

| 24                 | 23       | 22                 | 21       | 20                 | 19                 | 18                 | 17       | 16       | 15       | 14                 | 13       | 12 .     | 11                | 10       | 9        | 8                  | 7        | o                 | u        | 4                  | w        | N        | <b>,</b>           | , No        | Result |
|--------------------|----------|--------------------|----------|--------------------|--------------------|--------------------|----------|----------|----------|--------------------|----------|----------|-------------------|----------|----------|--------------------|----------|-------------------|----------|--------------------|----------|----------|--------------------|-------------|--------|
| 59                 | 59       | 59                 | 59       | 68                 | 68                 | 68                 | 142      | 146      | 146      | 146                | 146      | 146      | 146               | 146      | 146      | 146                | 146      | 146               | 146      | 146                | 146      | 146      | 146                | Score       |        |
| 40.4               | 40.4     | 40.4               | 40.4     | 46.6               | 46.6               | 46.6               | 97.3     | 100.0    | 100.0    | 100.0              | 100.0    | 100.0    | 100.0             | 100.0    | 100.0    | 100.0              | 100.0    | 100.0             | 100.0    | 100.0              | 100.0    | 100.0    | 100.0              | Match       | Query  |
| 524                | 524      | 524                | 357      | 1439               | 1439               | 1439               | 172      | 692      | 679      | 679                | 679      | 679      | 679               | 679      | 672      | 215                | 215      | 215               | 215      | 31                 | 31       | 31       | 31                 | Length      |        |
| v                  | 4        | N                  | 4        | 9                  | 8                  | 80                 | 4        | œ        | æ        | 7                  | σ        | 4        | 4                 | N        | 4        | 8                  | 0        | 4                 | N        | œ                  | 0        | 4.       | N                  | 8           | 1      |
| AAO19011           | AAB73285 | AAW32096           | ABU53268 | ADW00404           | ADU77050           | ADR12189           | AAG73987 | ADX97562 | ADN17172 | ADG14341           | ADA26379 | AAM78590 | AAE07319          | AAW79676 | AAM79574 | ADN17177           | ADA26384 | AAE07324          | AAW79681 | ADN17174           | ADA26381 | AAE07321 | AAW79678           | ID          | •      |
| Aao19011 Porcine e | ٠.       | Aaw32096 Miniature |          | Adw00404 Epithelia | Adu77050 Murine ha | Adr12189 Trichohya |          | Pancr    |          | Adg14341 Human NC2 | Predic   | Humaı    | Aae07319 Human CS |          | Human    | Adn17177 CS198 pro | Synth    | Aae07324 Human CS | Human    | Adn17174 CS198 pep | -        | ,        | Aaw79678 Synthetic | Description |        |

| <u>,4</u> , | 44       | 43        | 42       | 41        | 40       | 39        | 38        | 37        | 36        | 35        | 34        | ω<br>u    | 32        | 31        | 30        | 29        | 28         | 27        | 26        | 25       |
|-------------|----------|-----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|----------|
| 55          | 55       | 55        | 55       | 55        | 55       | 55.5      | 56        | 56        | 56        | 56        | 56        | 56        | 56        | 57        | 58        | 58        | 58         | 58.5      | 59        | 59       |
| 37.7        | 37.7     | 37.7      | 37.7     | 37.7      | 37.7     | 38.0      | 38.4      | 38.4      | 38.4      | 38.4      | 38.4      | 38.4      | 38.4      | 39.0      | ω         | 39.7      | 39.7       | 40.1      | 40.4      | 40.4     |
| 224         | 224      | 224       | 144      | 143       | 109      | 500       | 985       | 985       | 828       | 828       | 322       | 322       | 219       | 1893      | 894       | 524       | 230        | 689       | 744       | 524      |
| 7           | σ        | 0         | 4.       | 4         | 4        | v         | 4         | 4         | œ         | 7         | œ         | o         | œ         | 4         | 4         | σ         | 9          | 4.        | æ         | α        |
| ADJ70695    | AA026229 | ADA54938  | ABU53278 | ABG20989  | ABU53270 | ABP73751  | ABB66752  | ABB63557  | ADU48365  | ADE65842  | ADL05434  | ABU35341  | ADX94706  | ABB59829  | ABB64737  | ABJ25645  | ADY65542 · | ABB62614  | ADS73450  | ADS/3446 |
| Adj70695    | Aao26229 | Ada54938  | Abu53278 | Abg20989  | Abu53270 | Abp73751  | Abb66752  | Abb63557  | Adu48365  | Ade65842  | Ad105434  | Abu35341  | Adx94706  | Abb59829  | Abb64737  | ADJ 25645 | Ady65542   | ADD62614  | Ad8/3450  | AG8/3440 |
| Human hea   |          | Human pro | Humar    | Novel hum | -        | Candida a | Drosophil | Drosophil | Human col | Human col | M. catarr | Protein e | Plant tul | Tradosoru | Trudosoun | Aspergili | S. manson  | Trudosoru | Swine rec |          |

## ALIGNMENTS

XXXXXXX Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis; Synthetic CS198 derived peptide #2. AAW79678 standard; protein; 31 AA. 31-MAR-1997; 30-MAR-1998; Synthetic. 11-JAN-1999 AAW79678; 08-OCT-1998. WO9844159-A1. pancreatitis. (first entry) 97US-00828855 98WO-US006251.

(ABBO ) ABBOTT LAB.

Granados EN, Billing-Medel PA, Roberts-Rapp L, PA, Cohen M, Colpitts TL, Hayden M, Hodges SC, Klass L, Russell JC, Stroupe SD; Friedman PN, Gordon MR, Kratochvil JD;

Ç,

WPI; 1998-542714/46.

New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.

Claim 26; Page 102; 127pp; English.

AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynuclectide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's cesophagus, gastric ulcer, gastritis, leiomyoma, polyps, oesophagus, ulcerative

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
     The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least CS 198 specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, tracts or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic
                                                                                                                                                                     Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  colitis, and pancreatitis
                                                                                                                                                                                                                       WPI; 2001-496163/54.
                                                                                                                                                                                                                                               Roberts-Rapp
                                                                                                                                                                                                                                                            Granados EN,
                                                                                                                                                                                                                                                                      Billingel PA,
                                                                                                                                                                                                                                                                                                            (ROBE/)
                                                                                                                                                                                                                                                                                                                                                (HAYD/)
(HODG/)
(KLAS/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human CS 198
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                                                                                                                                                                                                                                                                                                                                                                                      (GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                             (FRIE/)
                                                                                                                                                                                                                                                                                                                                                                                                                          (COLP/)
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                                                                                                                                                                                                                                                                                                                                                         GORDON J.
GRANADOS E N.
HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31;
                                                                                                                                                                                                                                                                                               KRATOCHVIL J D.
ROBERTS-RAPP L.
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                         COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                     COHEN M
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                                                                                                                                                                                                                                                                                                                                                KLASS M R.
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                                                                                                                                              Page 51; 68pp;
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                                                                                                                                                                                                                                             Hayden M,
L, Russell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-00050516.
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                                                                                                                                              English.
                                                                                                                                                                                                                                             Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 146; DB 2;
Pred. No. 1.9e-12;
; Mismatches 0;
                                                                                                                                                                                                                                                                       Friedman
                                                                                                                                                                                                                                                            PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 31;
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Best Local (
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                                                                                                 Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                            cancer prognosticating; cancer prevention; can
gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic peptide based on CS198 protein
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                                                                 WPI; 2003-596961/56.
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(COLP/)
(FRIE/)
(GORD/)
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30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                   CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADA26381;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         consensus sequence
                                                                                                                                                                              (KLAS/)
                                                                                                                                                                                                                                                                   (BILL/)
                                                                                                                                                                   KRAT/)
                                                                                                                                                                                        HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31;
                                                                                                                                                                GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                 ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                  BILLINGEL P A.
                                                                                                                                                                                                                                                        COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RLQKSQSSDLLERERESVLRREQEVABERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first
                                                                                    , Cohen M,
Hayden MA,
L, Russell
                                                                                      Ĺ
                                                                                                                                                                                                                                                                                        97US-00828855.
98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                                                                                                        ۲۶
                                                                                      Colpitts TL,
Hodges SC,
LJC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 146; DB 4;
Pred. No. 1.9e-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                        Klass MR,
                                                                                                              Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31
                                                                                                                                                                                                                                                                                                                                                                                                                         cancer;
                                                                                                   PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
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Detecting the presence of a target CS198 polynucleotide in a test comprises contacting the sample with a CS198 specific polynucleotide detecting the presence of the target CS198 polynucleotide in the t

the test

sample.

Claim 17;

Page 51;

67pp; English

The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 mp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conference of the contractions traction and the conference of the contractions.

conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.

9

Sequence

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₹

Length

31;

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RESULT 4
ADN17174
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                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 31
                                                                                                                                                                                                                                                                          Gastrointestinal tract; GI tract; CS198; cancer;
                                                                                                                                                                                                                                                                                                                                         ADN17174 standard; peptide; 31 AA.
                                                                                                                                                                                    31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                           Unidentified
                                                                                                                                                                                                                                                                                          CS198
                                                                                                                                                                                                                                                                                                          17-JUN-2004
                                                                                                                                                                                                                                                                                                                         ADN17174
Diagnosing diseases such as cancer of the detecting aberrant expression or activity
                                                Billingel PA,
Granados EN,
                                                                                                                                                                                                           22-AUG-2003; 2003US-00646873.
                                                                                                                                                                                                                            04-MAR-2004
                                                                                                                                                                                                                                           US2004043406-A1
                         WPI; 2004-313754/29
                                       Roberts-Rapp
                                                                                                             (HAYD/)
                                                                                                                             (GORD/)
                                                                                             (KRAT/)
                                                                                                                                             (FRIE/)
                                                                                      ROBE/)
                                                                                                      KLAS/
                                                                                                                                                    COLP/)
                                                                                                                                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                          peptide
                                                                                                            GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                    BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                            COLPITTS T L. FRIEDMAN P N.
                                                                       STROUPE
                                                                                      KRATOCHVIL J
ROBERTS-RAPP
                                                                                                                                                             COHEN M.
                                                                                                      KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                         RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                 RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                        ŗ
                                                                                                                                                                                                                                                                                                          (first entry)
                                               Cohen M,
Hayden MA,
                                                                                                                                                                                    97US-00828855.
98US-00050516.
                                                                      8 U.C.
                                        Russell
                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                               Colpitts TL,
Hodges SC,
                                        'n,
                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                Score 146; DB 6;
Pred. No. 1.9e-12;
; Mismatches 0;
                                        Stroupe
                                        Klass
SD;
                                                 Friedman PN, Gordon
Klass MR, Kratochvil
gastrointestinal tract, by of the CS198 polypeptide,
                                                                                                                                                                                                                                                                           gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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and

Claim

Page 103; 127pp;

English.

This sequence represents the C-terminal of the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastrițis, leiomyoma, polyps, Crohn's disease, ulcerative

New gastrointestinal polymucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.

WPI;

1998-542714/46.

Billing-Medel Granados EN,

Hayden M, PA,

M, Colpitts TL, Hodges SC, Klass JC, Stroupe SD;

Friedman MR, Krat

lman PN, Gordon
Kratochvil JD;

4

Russell JC, Cohen M,

Roberts-Rapp L,

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RESULT 5
AAM796H
ID AAM77
XX
AC AAM7
XX
DT 11-J
DT 11-J
XX
DE Huma
XX
KW Gast
KW Gast
KW gast
KW ganc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to respense the method involves detecting the the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polymucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The
                                                                                                                                                                                                                                            Gastrointestinal tract; GI tract; cancer; disease; detection; human; predisposition; treatment; Barret's oesophagus; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative col
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 31 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       associated treatment methods
                                                                                                                 30-MAR-1998;
                                                                                                                                                                         W09844159-A1.
                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                pancreatitis
                                                                                                                                                                                                                                                                                                     Human CS198 protein C-terminal
                                                                                                                                                                                                                                                                                                                                  11-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                AAW79681;
                                                                                                                                                                                                                                                                                                                                                                                            AAW79681 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          present sequence is a CS198 peptide used to illustrate the
                                                                                                                                            08-OCT-1998
                                                        (ABBO ) ABBOTT LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RLQKSQSSDLLERERESVLRREQEVABERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 44; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                     (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               relates to reagents and methods for detecting diseases setimal (GI) tract. The method involves detecting the
                                                                                                                 98WO-US006251
                                                                                     97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                                              215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 146; DB 8;
Pred. No. 1.9e-12;
                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 31;
                                                                                                                                                                                                                                                 stric ulcer; colitis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
     The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198 specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the CI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic immunoassays, as components or as target sites for various therapies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                           Billingel PA, Cohen M,
Granados EN, Hayden M,
Roberts-Rapp L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                      Claim 17; Page 52-53; 68pp;
                                                                                                                                                                                             Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, co contacting test sample with at least one CS 198-specific polynucle
                                                                                                                                                                                                                                                     WPI; 2001-496163/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                        (COLP/)
(COLP/)
(FRIE/)
(GORD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US2001010904-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human CS 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAE07324;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAE07324 standard; protein; 215 AA
                                                                                                                                                                                                                                                                                                                                                                         (KLAS/)
                                                                                                                                                                                                                                                                                                                                                                                                   (HODG)
                                                                                                                                                                                                                                                                                                                                                                                                                (HAYD,
                                                                                                                                                                                                                                                                                                                                                              (ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
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31; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \vdash
                                                                                                                                                                                                                                                                                                                                RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                           GORDON J.
GRANADOS E N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                  HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                         KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                                                        KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
ilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein C-terminal portion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-00050516.
                                                                                                                                                                                                                                                                             Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                                                                    English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 146; DB 2;
Pred. No. 1.6e-11;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                      Friedman
                                                                                                                                                                                                                                                                                            PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                              comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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Claim

52;

Page 52;

sample.

Detecting the presence of a target CS198 polynucleotide in a t comprises contacting the sample with a CS198 specific polynucl detecting the presence of the target CS198 polynucleotide in t

in the

est sample

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RESULT 7
ADDA26384
ID ADDA2
XX ADDA2
AC ADDA2
XX CS11
XX CS11
XX CS12
XX GS Synt
XX GS S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                 Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer prognosticating; cancer prevention; car
gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic peptide based on CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADA26384 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                               WPI; 2003-596961/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-OCT-2002; 2002US-00278547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAY-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (FRIE/)
                                                                                                                                                                                                                                         Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HAYD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (COLP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (PILL/)
                                                                                                                                                                                                                                                                                                                                                                                       ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                             KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                 KLAS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    COLPITTS T L.
FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 RLOKSOSSDLLERERESVLRREGEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                   ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                           KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 215 AA;
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                                                                                                                                                                                                                                         Hayden MA,
L, Russell
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98US-00050516.
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                                                                                                                                                                                                                                         Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 146; DB 4;
Pred. No. 1.6e-11;
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                                                                                                                                                                                                                                                                      Friedman PN, Gordon
Klass MR, Kratochvil
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer;
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The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic applied based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.

Query Match Best Local 9 Matches

Similarity

100.0%;

Score 146; DB 6; Pred. No. 1.6e-11; Mismatches

Length Indels

215 AA;

31,

Conservative

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0

<u>.</u> Gaps

0;

31

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ADN1717 7
ADN1717 7
ID ADN11 XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADN17177 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US2004043406-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-JUN-2004
                        Diagnosing diseases such as cancer of the gastrointestinal tract, detecting aberrant expression or activity of the CS198 polypeptid associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-AUG-2003, 2003US-00646873
                                                                                                                       WPI; 2004-313754/29
                                                                                                                                                                 Granados EN,
Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                  (HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                   (GORD/)
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                                                                                                                                                                                                                                                                                                                                                                               GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                               ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                     KLASS M R.
KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BILLINGEL P A.
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                                                                                                                                                                 , Cohen M,
Hayden MA,
L, Russell
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98US-00050516
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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                                                                                                                                                                   Colpitts TL,
Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tract; CS198; cancer;
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                                                                                                                                                                                                        IL,
                                                                                                                                                                   Klass
SD;
                                                                                                                                                                                            Friedman
Klass MR,
                                                                                                                                                                                            PN, Gordon
Kratochvil
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                                                    polypeptide, and
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The invention relates to polynucleotides (AAK51456-AAK53435) a encoded polypeptides (AAM78323-AAM80302) that exhibit activity cytokine, cell poliferation or cell differentiation or which production of other cytokines in other cell populations. The

(AAK51456-AAK53435) and the

exhibit activity

may elating

induce

6

Nucleic acids encoding polypeptides with in diagnosis and gene therapy.

cytokine-like activities, useful

N-PSDB;

Claim

20;

Page 288; 6221pp; English.

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RESULT 9
AAM/195/
IID AAM/17
XXX AAM/197/
AC AAM/1
AC AAM/1
XXX Huma
XXX Huma
XXX Huma
XXX Huma
XXX Homo
OS Ho
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAM79574 standard; protein;
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                                                                                                                                                                                                                                                                                                                             Tang
Ma Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-FEB-2000;
27-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human protein SEQ ID NO 3220.
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19-JUL-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nervous system disorder; arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-NOV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                   (HYSE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             L5-SEP-2000;
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AJ, Yang Y,
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DB; AAK52707.
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                                                                                                                                                                                                                                                                                                                                                                                                 HYSEQ INC.
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ilarity 100.0%;
Conservative (
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; 2000US-00560875.
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; 2000US-00620325.
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ng D, Wang J
                                                                                                                                                                                                                                                                                                     Wang D, W
Wejhrman
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Pred. No. 1.6e-1
                                                                                                                                                                                                                                                                                                       Asundi V, Zh
g J, Zhang J,
Goodrich R;
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                                                                                                                                                                                                                                                                                                                                  Ren
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RESULT 10
AAW79676
ID AAW79676
AC AAW79
XX AAW79
XX AAW79
XX GAST
XX GAST
XX GAST
XX GAST
XX PN
PD 08-
XX PA
PD 08-
XX PA
PT GG
PT G
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Best Local
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                                                                                   This sequence represents the human CS198 protein which is used in a method to detect the presence of a target CS198 polymucleotide in a termently of the CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treation or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative colitis, and
                                                                                                                                                                                                                                                                                                                                                                                                                               New gastrointestinal polynucleotides, CS198, and their detection - for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastriti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Granados EN,
Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gastrointestinal tract; GI tract; cancer; disease; detection; CS19 human; predisposition; treatment; Barret's oesophagus; gastric ulc gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                         Claim 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Billing-Medel PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1998-542714/46
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                                                                                                                                                                                                                                                                                                                                                                         Page 100-102; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hayden M,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-00828855
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cohen M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     M, Colpitts TL,
Hodges SC, Klass
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 679
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Pred. No. 5.7e-11;
; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                  gastritis.
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Query Match

100.0%;

Score 146;

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Length 679;

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RESULT 11
AARO7319
ID AARO7373
XX AARO77
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XX CS 15
XW GASTIT
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XX O2-AI
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Matches 31; Conserv
The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic
                                                                                                                                                                                                                                                                                                                                               Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprise contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-496163/54.
N-PSDB; AAD13637.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Billingel PA, Cohen Granados EN, Hayden
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human CS
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                                                                                                                                                                                                                                                                                              Claim 17; Page 49-51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Barret's oesophagus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-NOV-2001
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GRANADOS E N.
HAYDEN M.
HODGES S C.
KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RLQKSQSSDLLERERESVLRREQEVAEERRN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RLOKSOSSDLLERERESVLRREQEVAEERRN 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-00050516
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ohen M,
yden M,
Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "Encoded by CGGN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene therapy; drug screening; human.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5.8e-11;
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RESULT 12
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Best Local (
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27-APR-2000; 2000US-00560875.

20-JUN-2000; 2000US-00598075.

19-JUL-2000; 2000US-00620325.

01-SEP-2000; 2000US-00654936.

15-SEP-2000; 2000US-00663561.

20-OCT-2000; 2000US-00693325.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            immunoassays, as components or as target sites for various therapies. Antibodies directed against at least one epicope contained within these polypeptides are useful as delivery agents for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 polynucleotide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is human CS 198 polypeptide
                                                                                                                                                                                                      Tang YT,
Ma Y, Z
Xue AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human protein SEQ ID NO 1252.
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The invention relates to polynucleotides (AAKS1456-AAKS3435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or
                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tiesue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.
                                                                                                                 Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
                                                                                                                                                             WPI; 2001-476283/51.
N-PSDB; AAK51723.
                                                                                         Claim 20;
                                                                                                                                                                                                                                                                                              30-NOV-2000;
                                                                                                                                                                                                                                                                   (HYSE-)
                                                                                                                                                                                                    YT, Liu C, Drmanac I
, Zhao QA, Wang D, I
AJ, Yang Y, Wejhrman
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                                                                                                                                                                                                                                                                   HYSEQ INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                       Page 3512-3514; 6221pp; English.
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llarity 100.0%;
Conservative (
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Wang
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Pred. No. 5.8e-11;
                                                                                                                                                                                                      Asundi V, Zho
J, Zhang J,
Goodrich R;
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RESULT 13
ADA26379
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Best Local S
Matches 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activin/inhibin activity and may be useful in the diagnosis and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer prognosticating; cancer pogastrointestinal tract disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the sequence listing were missing at the time of publication
                                                                                                                                                                                                                                                                                                                                                                                                           US2003082619-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADA26379;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                    Detecting the presence of a target CS198 polynucleotide in a t
comprises contacting the sample with a CS198 specific polynucl
detecting the presence of the target CS198 polynucleotide in t
                                                                                                                                                                                                                                                                                                                             30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                        31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                     01-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Predicted amino acid sequence of the CS198 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADA26379
                                                                                                                                Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                          (FRIB/)
                                                                                                                                                                                                                                                                                (COLP/)
                                                                                                                                                                                                                                                                                                                                                               23-OCT-2002; 2002US-00278547
                                                                                                                      Roberts-Rapp L,
                                                                                                                                                                                          ROBE/
                                                                                                                                                                                                    (KRAT
                                                                                                                                                                                                               KLAS/
                                                                                                                                                                                                                          (HODG/
                                                                                                                                                                                                                                     (HAYD/
                                                                                                                                                                                                                                                 (GRAN/
                                                                                                                                                                                                                                                                                                      (ATTR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           537
                                                                                                   2003-596961/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31;
                                                                                                                                                                 COHEN M.
COLPITTS T L.
COLPITTS T L.
GRANDAN P N.
GGORDON J.
GRANDON E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
ROBERTS - RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                      BILLINGEL P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RLOKSOSSDILERERESVIRREQEVAEERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   679 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                       Hayden MA,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
                                                                                                                                                                                                                                                                                                                              98US-00050516
                                                                                                                                                                                                                                                                                                                                          97US-00828855.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                                                                                                                                                                          r o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer prevention;
                                                                                                                      Colpitts TL,
Hodges SC,
I JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 146; DB 4;
Pred. No. 5.8e-11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene therapy.
                                                                                                                        Klass
SD;
                                                                                                                                   Friedman
Klass MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                     PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 679;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                     មូដ
                                                         the
                                                                     test sample
cleotide and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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The invention describes a method of detecting

the

presence

of a target

Claim

17;

Page

49-50; 67pp; English

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Matches
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The present invention relates to human NC1, NC2 and NC3 proteins and coding sequences (ADG14340-ADG14345). The coding sequences are useful for detecting and screening proliferative insulin-producing cells as well as differentiation and proliferation of such cells and their precursors as analogous cells in treatment of e.g. PHHI and diseases due to differentiation/proliferation abnormality, diseases of the nervous system and pancreas. The coding sequences are also useful as spontaneous proliferation models of pancreas beta-cells. The novel genes NC1, NC2 and NC3 were isolated from the pancreas of PHHI patients, which were used in testing for the detection of proliferative insulin-producing cells or pancreas beta-cells by Northern analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI) patient-expressed genes for detecting and screening e.g. proliferatinsulin-producing cells in treatment of PHHI.
                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; SEQ ID NO 2; 34pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-767524/72.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Niwa H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-MAR-2002; 2002JP-00071592.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-MAR-2003; 2003WO-JP002620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003078631-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     neuroprotective.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; NC1; NC2; NC3; PHHI; pancreas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human NC2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 679 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (KANF)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      _
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADG14344.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yamashita K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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Pred. No. 5.8e-11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         beta-cell; insulin; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>.</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       679;
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Sequence 679

Query Match

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Score 146;

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Length 679;

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RESULT 15
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ADMITT
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Best Local
                                                                 The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-MAR-1997;
30-MAR-1998;
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  Sequence 679
                                                                                                                                                                                                                                                                                                                                   associated treatment
                                                                                                                                                                                                                                                                                                                                                   Diagnosing diseases such as cancer of the gastrointestinal tract, detecting aberrant expression or activity of the CS198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (COLP/)
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                                                                                                                                                                                                                                                                              Claim 17; SEQ ID NO 42; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                       GENBANK; D87440
                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-313754/29.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-AUG-2003; 2003US-00646873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ROBE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ROBERTS-RAPP RUSSELL J C. STROUPE S D.
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RLOKSOSSDLLERERESVLRREQEVAEERRN 31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hayden MA,
L, Russell
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98US-00050516
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                                                                                                                                                                                                                                                                                                                                     methods.
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Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,</u>
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Pred. No. 5.8e-11;
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SD;
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Klass MR, Kratochvil
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Best Local Similarity 100.0%; Pred. No. 5.8e-11; Matches 31; Conservative 0; Mismatches 0; Indels '0; Gaps

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Search completed: March 3, 2006, 13:35:22 Job time : 18.5695 secs

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Maximum DB
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Perfect score:
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score greater than or equal to the score of the result being printed
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| 45           | 44          | 43          | 42           | 41          | .40          | 39                 | 38                 | 37           | 36           | υ<br>5      | 34           | 33           | 32              | 31     | . 30         |
|--------------|-------------|-------------|--------------|-------------|--------------|--------------------|--------------------|--------------|--------------|-------------|--------------|--------------|-----------------|--------|--------------|
| 51           | 51          | 51          | 51           | 51          | 51           | 51                 | 51                 | 51           | 51           | 51          | 51           | 51           | 51              | 51.5   | 51.5         |
| 34.9         | 34.9        | 34.9        | 34.9         | 34.9        | 34.9         | 34.9               | 34.9               | 34.9         | 34.9         | 34.9        | 34.9         | 34.9         | 34.9            | 35.3   | 35.3         |
| 988          | 964         | 964         | 857          | 798         | 790          | 646                | 457                | 453          | 419          | 270         | 268          | 226          | 142             | 599    | 456          |
| N            | N           | N           | N            | N           | N            | N                  | N                  | N            | N            | N           | N            | N            | N               | N      | N            |
| E81541       | D72131      | G86491      | AI0831       | T25104      | S27458       | T49654             | T50402             | T42428 ·     | JC7863       | T24126      | T24118       | T24125       | JC5612          | T51548 | T05612       |
| hypothetical | hypothetica | hypothetica | Clps protein | hypothetica | SMY2 protein | related to spliced | probable mitochono | mitochondria | IC53 protein | hypothetica | hypothetical | hypothetical | troponin i beta |        | hypothetical |

# ALIGNMENTS

C;Accession: T00636

R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; Burkhart-Schultz, K.; (R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; Burkhart-Schultz, K.; (resecuence continuation)

submitted to the EMBL Data Library, January 1998

submitted to the EMBL Data Library, January 1998

A;Description: Sequence analysis of a 3.5 Mb contig in 19p13.3 between CDC34 and D19834;

A;Reference number: Z14195

A;Reference number: Z14195

A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: 1-679 <LAM>

hypothetical protein F21856\_2 - human C;Species: Homo sapiens (man) C;Date: 01-Feb\_1999 #sequence\_revision

01-Feb-1999 #text\_change 09-Jul-2004

T00636 RESULT · 1

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heat shock protein GrpE [imported] - Yersinia pestis (strain CO92)

C;Species: Yersinia pestis
C;Species: O2-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
C;Date: 02-Nov-10136
C;Accession: AC0136
C;Accession: AC0136
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Davis, P.; Dougan, G.;
deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.;
il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell,
                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 2
AC0136
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A;Introns: 594/1; 637/3; 650/3
A;Note: F21856_2
                                                                                                                                                                                                      A;Title: Genome sequence of Yersinia postis,
A;Title: Amber: AB0001; MUID:21470413; P
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                                      A;Gene: YPO1107
C;Superfamily: 1
                                                                                                                       A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-192 <KUR>
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                                                                                                 A;Cross-references: UNIPROT:Q8ZH08; UNIPARC:UPI00000DCC53; GB:AL590842; PIDN:CAC89950.1
                                                                                                                                                                                       A; Reference number: A; Accession: AC0136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: UNIPROT:Q8IVT2;
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Score 66;
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Pred. No. 1.1e-09;
Mismatches 0;
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Query Match

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R,Favello, T.
submitted to the EMBL Data Library, October 1995
submitted to the EMBL Data Library, October 1995
committee to the sequence of C. elegans cosmid C25All.
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Rifavello, T.

submitted to the EMBL Data Library, October 1995
submitted to the sequence of C. elegans cosmid C25A11.
                     probable DNA-J-like protein - fission yeast (Schizosaccharomyces pombe) C;Species: Schizosaccharomyces pombe C;Dsec: 03-Dec:1999 #sequence_revision 03-Dec:1999 #text_change 09-Jul-2004 C;Accession: T38881
                                                                                                       T38881
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hypothetical protein C25All.4a - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 20-Sep_1999 #sequence_revision 20-Sep_1999 #texiC;Accession: T15598
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A;Reference number: Z18375
A;Accession: T15597
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A;Cross-references: UNIPARC:UPI000017B7BA; EMBL:U39650; NID:g1049376; PID:g1049380; PIDN
A;Experimental source: strain Bristol N2
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A;Experimental source: strain Bristol N2
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A; Residues: 1-737 < FAV>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Reference number: Z18375
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: DNA
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.Intron8: 65/3; 88/3; 126/3; 433/2; 494/2; 711/2; 735/1; 792/3; 833/3; 873/2
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    D.; Barrell,
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                                                                                                                                                                                                                                                                42.5%; Score 62; DB 51.6%; Pred. No. 13; tive 5; Mismatches
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3; Mismatches
B.G.; Rajandream,
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    M.A.; Walsh,
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                               A; Kolecule type: DNA
A; Kolecule type: DNA
A; Kolecule type: DNA
A; Residues: 1-1407 <FIE>
A; Cross-references: UNIPROT:P37709; UNIPARC:UPI000013738C; EMBL:Z19092; NID:g1746; PIDN:
A; Cross-references: UNIPROT:P37709; UNIPARC:UPI000013738C; EMBL:Z19092; NID:g1746; PIDN:
C; Comment: Trichohyalin is a protein of the medulla of the hair and of the inner root sh
C; Comment: Trichohyalin is a protein include conversion of arginine to citrulline and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
    A; Introns: 46/3 C; Superfamily:
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Matches
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trichohyalin;

calmodulin repeat homology

trichohyalin

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C;Accession: E75292

R;White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, T.; Zalewski, S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
Science 286, 1571-1577, 1999
A;Title: Genome sequence of the radioresistant bacterium Deinococcus radiodurans A;Reference number: A75250; MUID:20036896; PMID:10567266
R;Fietz, M.J.; Rogers, G.E. submitted to the EMBL Data Library, December 1992 A;Description: Examination of the gene encoding rabbit
                                                                                                                                                                                                                                                                                                                                                                               A; Gene: DR2299
A; Map position:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGDEF family protein - Deinococcus radiodurans (strain R1)
C;Species: Deinococcus radiodurans
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Introns: 29/2; 53/3; 277/2
F;8-74/Domain: dnaJ amino-terminal homology
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A; Introns: 29/2;
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A; Residues: 1-392 < M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            submitted to the EMBL Data Library, February A_1;Reference number: Z21807
                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPROT:Q9RS28; UNIPARC:UPI00000D3F88; A;Experimental source: strain R1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Cross-references: UNIPROT:Q10209; UNIPARC:UPI000013A191; EMBL:Z69380; PIDN:CAA93340.1; A;Experimental source: strain 972h-; cosmid c4H3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type:
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                                                                                                                       trichohyalin - rabbit
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: preliminary
                                                                            ;Species: Oryctolagus cuniculus (domestic rabbit);Date: 12-Mar-1993 #sequence_revision 01-Mar-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gene: SPDB:SPAC4H3.01
                                                              Accession: S28589
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Best Local
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Pred. No. 19;
6; Mismatches
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Pred. No.
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T.; Zalewski,
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C.; Mal
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hypothetical protein SCB15.03c - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
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F;49-81/Domain: calmodulin repeat homology <EF2>
                                                         RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Description: Sequencing (A;Reference number: 217692)
A;Accession: T13594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R; Perraz, C.; Vidal, S.; Brun, C.; Bucheton, A.; Demaille, J.G. submitted to the EMBL Data Library, October 1998
A; Description: Sequencing the distal X chromosome of Drosophila melanogaster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       hypothetical protein peb - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Date: 13-Aug-1999 #sequence_revision 13-Aug-1999 #text_change
C;Accession: T13594
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A, Accession: T36106
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gene hindsight protein - fruit fly (Dro
C;Species: Drosophila melanogaster
C;Date: 20-Sep-1999 #sequence_revision
                                                                                                                                                                       S
                                                                                                                                                                                                                                                                                                         A;Gene: peb
A;Cross-references: FlyBase:FBgn0003053
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A;Experimental source: strain A3(2)
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                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: DNA
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Similarity 41.2%;
14; Conservative
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                                       fruit fly (Drosophila melanogaster)
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; Pred. No. 40;
7; Mismatches
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Pred. No. 29;
B; Mismatches
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   20-Sep-1999 #text_change 09-Jul-2004
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RESULT 11
JC6525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Yip, M.L.R.; Lamka, M.L.; Lipshitz, H.D.
Development 124, 2129-2141, 1997
A;Title: Control of germ-band retraction in Drosophila by the zinc-finger protein HINDSION A;Reference number: 217807; MUID:97330681; PMID:9187140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Zhang, M.; Xie, W.; Leung, G.S.W.; Deane, E.E.; Kwan, H.S. Gene 206, 23-27, 1998
A;Title: Cloning and characterization of the gene encoding beta A;Reference number: JC6525; MUID:98121308; PMID:9461410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           processing peptidase (EC 3.4.-.-) beta chain, mitochondrial - shiitake mushroom C;Species: Lentinula edodes (shiitake mushroom) C;Date: 21-Aug-1998 #sequence_revision 21-Aug-1998 #text_change 07-May-1999 C;Date: 21-Aug-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: mRNA
A; Residues: 1-1920 < Y
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A;Residues: 1-502 <XUZ>
A;Cross-references: UNIPROT:080383; UNIPARC:UPI00000AB396; EMBL:AB012708; NID:g3551256;
A;Experimental source: embryogenic callus
C;Genetics:
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C;Superfamily: mitochondrial processing peptidase alpha
C;Keywords: hydrolase; mitochondrion; zinc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: T13893
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                                                                                                                                                             R;Xu, Z.; Ueda, K.; Masuda, K.; Itoh, A.; Ono, M.; Inoue, submitted to the EMBL Data Library, March 1998 A;Description: A novel nuclear protein with a HMG-box fro
                                                                                                                                                                                                                                             C;Species: Daucus carota (carrot)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Gene: beta-mpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: UNIPARC:UPI0000175DBE
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                                                                                                                      A; Reference number: T14286
A; Accession: T14286
                                                                                                                                                                                                                                                                                                             T14286
                                                                                               A;Status: preliminary; translated from GB/EMBL/DDBL
                                                                                                                                                                                                                          C; Accession: T14286
                                                                                                                                                                                                                                                                                        embryogenic
                                                                                                                                                                                                                                                                                                                                RESULT 12
                                                                                  A;Molecule type: mRNA
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Best Local S
Matches 13
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                                                                                                                                                                                                                                                                                                                                                                                             LONSKLESGAIERERDVILREQQEVDKQ 160
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 56.5;
Pred. No. 26;
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                                                                                                                                                                     carrot
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RESULT 14
A45973
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A;Title: Prediction of the coding sequences of unidentified human genes. X. The complete A;Reference number: Z14142; MUID:98403880; PMID:9734811
A;Accession: T00377
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T00377
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C;Superfamily: trichohyalin; calmodulin repeat homology
C;Keywords: calcium binding; citrulline; EF hand; hair;
F;49-81/Domain: calmodulin repeat homology <EF2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: DNA
A; Residues: 1-1898 < LEE>
A; Cross-references: UNIPROT:007283; UNIPARC:UPI000013738B; GB:L09190; NID:g292835; PIDN:
A; Note: authors translated the codon AGG for residue 1714 as Pro
C; Comment: Trichohyalin is a protein of the medulla of the hair and of the inner root sh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Accession: A45973
R;Lee, S.C.; Kim, I.G.; Marekov, L.N.; O'Keefe, E.J.; Parry, D.A.D.; Steinert, P.M. J. Biol. Chem. 268, 12164-12176, 1993
A;Title: The structure of human trichohyalin. Potential multiple roles as a function ed (cross-linking) protein.
B;Reference number: A45973; MUID:93280194; PMID:7685034
A;Accession: A45973
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A; Cross-references: UNIP
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R;Ishikawa, K.; Nagase, T.; Suyama, M.; Miyajima, N.; Tanaka, A.;
RNA Res. 5, 169-176, 1998
DNA Res. 5, 169-176, 25 the coding sequences of unidentified human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Covalent modifications to this protein include conversion of arginine to citrulline
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A; Residues: 1-1069 <I
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C;Species: Homo sapiens (man)
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Date: 03-May-1994 #sequence_revision 01-Mar-1996 #text_change 09-Jul-2004

Compared to the compar
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Best Local S
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RIKREEEEERIEQRIKREHEEE-RREQELAEEEQ 709
                                                                    RLQKSQSSDLLE----RERESVLRREQEVAEERR 30
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42.9%;
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                                                                                                                                                                                   Score 54.5; DB 1;
Pred. No. 1.8e+02;
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R.Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson, ; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, E.F., Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L. Nature 390, 364-370, 1997

A;Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S.N. Smith, H.O.; Wosse, C.R.; Venter, J.C.
A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaeor A;Reference number: A69250; MUID:98049343; PMID:9389475
A;Accession: E69311
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C;Species: Archaeoglobus fulgidus
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
Search completed: March Job time: 3.95821 secs
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Copyright (c) 1993 - 2006 Biocceleration Ltd

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Protein C19orf21 homolog.
                    MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266; Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S., Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H., Nikaido I., Osato N., Saito R., Suzuki H., Schonbach C., Gojobori T. Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T. Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J., Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W., Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W., Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S., Gassterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
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Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
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75892 MW;
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Pred. No. 1.5e-08;
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Pred. No. 4.5e-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Potential.
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RESULT 4
GRPE\_YERPE

BAB

GRPE\_YERPE STANDARD; Q7CH40; Q74W49; Q8ZH08; 25-OCT-2004 (Rel. 45, Created)

192

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 \begin{array}{l} \mathbf{S} = \mathbf{X} \times \mathbf{R} \\ \mathbf{S} = \mathbf{X} \times \mathbf{R} \\ \mathbf{S} = \mathbf
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RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maltais L., Marchionni L., McKenzle L., Miki H.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Yuan Z., Zavolan M., Zhu Y., Zinmer A., Carninci P., Hayatsu N.,
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA Birney E., Hayashizayi Y.
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards J., Hetcon E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
"Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AK020266; BAB32049.1; -; mRNA.
EMBL; BC013508; AAH13508.1; -; mRNA.
Ensembl; ENSMUSG00000035852; Mus mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This Swiss-Prot entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restr
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                                                                                                                                                                                                                                                                                                                                                                      534 F
72281 MW;
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93.5%;
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Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;

rpE; OrderedLocusNames=YPO1107, y3073, YP1049;

, Last sequence update), Last annotation updat cofactor).

update)

Enterobacteriaceae, Yersinia pestis

Yersinia.

25-OCT-2004 (Rel. 45, 10-MAY-2005 (Rel. 47, GrpE protein (HSP-70)

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EMBL; AJ414146; CAC89950.1; -
EMBL; AE013908; AAM86623.1; -
EMBL; AE017130; AAS61299.1; -
PIR; AC0136; AC0136.
HSSP; P99372; 1DKG.
HAWAP; MF_01151; -; 1.
InterFro; IPR000740; GrpE.
PANTHER; PTHR11697:SF20; GrpE
                                                                                                                                                                                                           GTRAIN-CO-92 / Biovar Orientalis;
MEDLINB-21470413; PubMed=11586360; DOI=10.1038/35097083;
MEDLINB-21470413; PubMed=11586360; DOI=10.1038/35097083;
Parkhill J., Wren B.W., Thomson N.R., Titball R.W., Holden M.T.G.,
Prentice M.B., Sebaihia M., James K.D., Churcher C.M., Mungall K.L.,
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Chillingworth T., Cronin A., Davies R.M., Davis P., Dougan G.,
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"Genome sequence of Yersinia pestis, the causative agent of plague.";
Nature 413:523-527(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                 Song Y., Tong Z., Wang J., Wang L., Guo Z., Han Y., Zhang J., Pei D., Zhou D., Qin H., Pang X., Han Y., Zhai J., Li M., Cui B., Qi Z., Jin L., Dai R., Chen F., Li S., Ye C., Du Z., Lin W., Wang J., Yu J., Yang H., Wang J., Huang P., Yang R.; "Complete genome sequence of Yersinia pestis strain 91001, an isolate evirulent to humans.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN-91001 / B:
PubMed=15368893;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Straley S.C., McDonough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Deng W., Burland V., Plunkett G. III, Boutin A., May
Perna N.T., Rose D.J., Mau B., Zhou S., Schwartz D.C
Fetherston J.D., Lindler L.E., Brubaker R.R., Plano
Straley S.C., McDonough K.A., Nilles M.L., Matson J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE [LARGE SCALE STRAIN=KIM5 / Biovar Mediaevalis;
                                                                                                                                         the European
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                                                                                                                                           This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOI=10.1128/JB.184.16.4601-4611.2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Genome sequence of Yersinia pestis
J. Bacteriol. 184:4601-4611(2002).
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    GrpE; 1.
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Matson J.S., Blattner F.R.
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Q66DAB YERPS
Q66DAB YERPS
ID Q66DAB YERPS
ID Q66DAB YERPS
AC Q66DAB YERS
D7 25-OCT-2
D7 25-OCT-2
D8 GFPB PEC
GN Name-GTP
GN NAME-GTPB
OC Enteroba
OC III
RP NUCLEOTI
RC STRAIN-I
RC STRAIN-I
RC STRAIN-I
RC CHAMBG-I
RA Chain P.
RA Brubaker
RA Brubaker
RA Brubaker
RA Brubaker
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RT Comparis
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                                                         S
                                                                                                                                                                                                                                                                                                                                                                                               cc -:- FUNCTION: Participates actively in the response to hyperosmotic cc and heat shock by preventing the aggregation of stress-denatured cc proteins, in association with dnak and grpE. It is the nucleotide exchange factor for dnak and may function as a thermosensor.

CC Unfolded proteins bind initially to dnaJ; upon interaction with the dnaJ-bound protein, dnak hydrolyzes its bound ATP, resulting cc in the formation of a stable complex. GrpE releases ADP from dnak; cc in the formation of a stable complex. GrpE releases ADP from dnak; cc thus completing the reaction cycle. Several rounds of ATP-cc dependent interactions between dnaJ, dnak and grpE are required cc for fully efficient folding (By similarity).

CC EMBL; BX396398; CAH20381.1; -; Genomic_DNA.

CR GO; GO:000174; F:adenyl-nucleotide exchange factor activity; IEA.

CR; GO:00051087; F:chaperone binding; IEA.

CR; GO:00051087; F:protein homodimerization activity; IEA.

CR; GO:0006457; P:protein folding; IEA.
                                                                                                                  Query Match
Best Local S
Matches 15
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PRINTS; PR00773; GRPEPROTEIN.
PROSITE; PS01071; GRPE; 1.
Chaperone; Complete proteome;
SEQUENCE 192 AA; 21557 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
GTPE protein (HSP-70 cofactor).
Name=GrpB; OrderedLocusNames=YPTB1141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA]
STRAIN=IP32953 / Serotype I;
PubMed=15358858; DOI=10.1073/pnas.0404012101;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriaceae; Yersinia.
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                                                                                                                                                                                                                                     PROSITE; PS01071; GRPE; 1.
Chaperone; Complete proteome;
SEQUENCE 192 AA; 21545 MW;
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                                                                                                                                                                                                                                                                                                                      PRINTS; PR00773; GRPEPROTEIN.
                                                                                                                                                                                                                                                                                                                                           InterPro; IPR000740; GrpE. Pfam; PF01025; GrpE; 1.
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                                                               QSSDLLERERESVLRREQEVAEERR 30
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192 AA; 21557 MW; BAIAL65F68AD1062 CRC64;
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Pred.
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AFD5FC7AA7472062 CRC64;
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Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Ally Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Ally Marck C., Neuveglise C., Talla E.,
Barnay S., Blanchin S., Beckerich J.-M., Beyne E., Bleykasten C.,
Despons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
Despons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
Despons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
Despons L., Foszul R., Lemaire M., Lesur I., Ma L., Muller H.,
Despons L., Koszul R., Lemaire M., Lesur I., Ma L., Muller H.,
Despons L., Fotier S., Richard G.-F., Straub M.-L., Stleau A.,
Nicaud J.-M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellenz S., Potier S., Richard G.-F., Straub M.-L., Stleau A.,
Despons D., Tekaia F., Wesolowski-Louvel M., Westhof E., Wirth B.,
Zeniou-Meyer M., Zivanovic Y., Bolotin-Fukuhara M., Thierry A.,
Bouchter C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
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Best Local S
Matches 15
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Q7NL34;
01-MAR-2004 (
01-MAR-2004 (
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PROSITE; F
PROSITE; F
                                                                                                                                                                                                            01-MAR-2004 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
Glr1292 protein.
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SEQUENCE
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Yarrowia lipolytica (Candida lipolytica).
Eukaryota; Fungi; Ascomycota; Saccharomycotina;
Saccharomycetales; Dipodascaceae; Yarrowia.
                            Nakamura Y., Kaneko T., Sato S., Mimuro M., Miyashita H., Tsuchiya Sasamoto S., Watanabe A., Kawashima K., Kishida Y., Kiyokawa C., Kohara M., Matsuno A., Nakazaki N., Shimpo S., Takeuchi C., Yamada M., Tabata S.;
                                                                                                       NUCLEOTIDE SEQUENCE
STRAIN=PCC 7421;
                                                                                                                                                                                Gloeobacter violaceus
                                                                                                                                                                                              OrderedLocusNames=glr1292;
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                                                                                         MEDLINE=22977040; PubMed=14621292;
                                                                                                                                              Bacteria; Cyanobacteria; Gloeobacteria;
NCBI_TaxID=33072;
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InterPro; IPR006162; Ppantne_S.
PROSITE; PS00060; ADH IRON 2; UNKNOWN 1.
PROSITE; PS00012; PHOSPHOPANTETHEINE; UNKNOWN_1.
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Wincker P., Souciet J.-L.;
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PubMed=15229592; DOI=10.1038/nature02579;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-OCT-2004
 "Complete genome structure of Gloeobacter violaceus cyanobacterium that lacks thylakoids.";
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Vature 430:35-44(2004).
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1229 AA
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nilarity 45.5%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                         Score 63.5; DB 2;
Pred. No. 1.1e+02;
5; Mismatches 7;
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annotation update)
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               PCC 7421,
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                                                                                                                                                                  Gloeobacter
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Matches 14
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Best Local 9
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W1_ASPFU
Q4WSW1_ASPFU I
               Arroya J., 1
Bowyer P., (
Farman M., 1
Fosker N., 1
                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE.

PubMed=14998527; DOI=10.1016/j.fgb.2003.12.003;

Pain A., Woodward J., Quail M.A., Anderson M.J., Clark R., Coll Fosker N., Fraser A., Harris D., Larke N., Murphy L., Humphray O'Neil S., Pertea M., Price C., Rabbinowitsch E., Rajandream M-Salzberg S., Saunders D., Seegar K., Sharp S., Warren T., Denning D.W., Barrell B., Hall N.,

"Insight into the genome of Aspergillus fumigatus: analysis of kb region encompassing the nitrate assimilation gene cluster.";

Fungal Genet. Biol. 41:443-453(2004).

EMBL; BK649605; CAE47870.1; -; Genomic DNA.

EMBL; BK649605; CAE47870.1; -; Genomic DNA.
                                                                                                                                                                         Q4WSW1;
13-SEP-2005 (TrEMBLrel. 31,
13-SEP-2005 (TrEMBLrel. 31,
13-SEP-2005 (TrEMBLrel. 31,
RNA export mediator (Gle1),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation updat
RNA export mediator glel homologue, putative.
ORFNames=AfA24A6.110;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA Res. 10:137-145(2003).
EMBL; BA000045; BAC89233.1;
InterPro; IPR008538; DUF820,
Pfam; PF05685; DUF820; 1.
                                                              STRAIN=Af293;
Nierman W., P
                                                                                                                           ORFNames=Afulg11440;
Aspergillus fumigatus Af293.
Eukaryota; Fungi; Ascomycota
Eurotiales; Trichocomaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Aspergillus fumigatus (Sartorya fumigata).
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiom
Eurotiales; Trichocomaceae; mitosporic Trichocomaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q6MYY9_ASPPU
Q6MYY9;
                                                                                          NUCLEOTIDE
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                                                                                                               NCBI_TaxID=330879;
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                                                                                                                                                                                                                                                                                                                                                        14;
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              ., Pain A., Anderson M.J.
Berriman M., Abe K., A.
Chen D., Collins M., C.
Fedorova N., Fedorova Pedorova J.L.
                                                                                         SEQUENCE.
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                                                                                                                                                                                                                                           PRELIMINARY;
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                                                                                                                                         Ascomycota;
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                                                                                                                                                                                                                                                                                                                                                                 42.5%;
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               Fedorova N., Feldblyum
arcia J.L., Garcia M.J.,
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Jon M.J., WULLER D.B., BEING, Dyer F.L. B.M., Coulsen R., Davies R., Dyer F.L. B.M., Coulsen R., Feldblyum T.V., Fischer R.
                                                                                                                            mitosporic
                                                                                                                                                                                        Last sequence update)
Last annotation updat
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                                                                                                                                                                             putative.
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2; Mismatches
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Pred. No.
                                                                                                                             Pezizomycotina; Eurotiomycetes;
itosporic Trichocomaceae; Aspergillus.
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                                             , Wortman J., Alm.
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                                                                Kim H.Stanley.,
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                                        Dyer P.S.,
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RESULT 10
Q18137 CAREL PRELIMINARY;
AC Q18137;
AC ALL CALL COLOR COLOR ALL COLOR AL
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& Keller N., Khouri H., Kitamoto K., Kobayashi T., Kulkarni R.,

& Kumagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,

& Kumagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,

& Majoros W.H., May G.S., Miller B.L., Mohamoud Y., Molina M., Monod M.,

& Majoros W.H., May G.S., Miller B.L., Mohamoud Y., Molina M., Monod M.,

& Majoros W.H., May G.S., Miller B.L., O'Neil S., Paulsen I.,

& Mouyna I., Milligan S., Miller B.L., O'Neil S., Paulsen I.,

& Mouyna I., Milligan S., Miller B.L., O'Neil S., Paulsen I.,

& Renalva M.A., Pertea M., Price C., Pritchard B.L., Quail M.A.,

& Rabbinowitsch E., Rawlins N., Rajandream M.-A., Reichard U.,

& Ranchids S., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,

& Ronning C.M., Rutter S., Salzberg S.L.,

& Ronning C.M., Rutter S., Salz
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Best Local S
Matches 14
                                                                                                                                     Query Match
Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-NOV-1996 (TrEMBLrel. 01, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence up
01-OCT-2003 (TrEMBLrel. 25, Last annotation
Apical junction molecule protein 1, isoform
Name-ajm-1, ORFNames=C25All.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Goldman G.H.,
                                                                                                                                                                                                                                                                                                                                      Ensembl; C25A11.4; Caenorhabditis elegans WormBase; WBGene00000100; ajm-1.
WormPep; C25A11.4b; CE27084.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The C. elegans sequencing consortium; "Genome sequence of the nematode C. e investigating biology."; science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; U39650; AAK39186.1; -; Genomic_DNA.
HSSP; P05412; 1FOS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          preliminary data.
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       687
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EEAQLADLLERERHNQLIRENERREAVERAN
                                                                      QKSQSSDLLERERESVLRREQEVAE--ERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  524 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   K., Griffith-Jones S., Gwilliam R., Haas B.,
Horiuchi H., Huang J., Humphrey S., Jimenez
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EAL90471.1; -; 60627 MW; DF9:
                                                                                                                                                                                                                                                                           113558 MW;
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                                                                                                                                                                        42.5%;
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58.3%;
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Pred. No.
                                                                                                                                         5
                                                                                                                                         Pred. No. 1.30
5; Mismatches
                                                                                                                                                                        Score 62; DB 2;
Pred. No. 1.3e+02;
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DF91083335A8BDD3 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                              6C4FBC0CFAD3BB03 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENOMIC
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                                                                                                                                                                                                           Length 944;
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RESULT 11
Q582W2\_9TRYP
ID Q582W2\_9TRYP PRELIMINARY;

PRT;

963

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Conservative

5

Mismatches

Indels

2

Gaps

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Q95ZY7_CAEEL
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Best Local S
Matches 13
Query Match
Best Local Similarity
Matches 16; Conserv
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10-MAY-2005
10-MAY-2005
10-MAY-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=GUTat10.1;
STRAIN=GUTat10.1;
El-Sayed N.M., Khalak H.,
El-Sayed (APR-2002) to t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ghedin E., Blandin G., Bartholomeu D., Caler E., Haas B., Hanni
Shallom J., Hou L., Djikeng A., Feldblyum T., Hostetler J.,
Johnson J., Jones K., Koo H.L., Larkin C., Pai G., Peterson J.,
Khalak H.G., Salzberg S., Simpson A.J., Tallon L., Van Aken S.,
Wanless D., White O., Wortman J., Fraser C.M., El-Sayed N.M.A.;
Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                              Complete
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q95ZY7 CAEEL PRELIMINARY;
Q95ZY7;
Q1-DEC-2001 (TremBirel. 19,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hypothetical protein. SEQUENCE 963 AA; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=GUTatlo 1;
Haas B., Blandin G., El-Sayed N.;
Haas B., Blandin G., to the EMBL/GenBank/DDBJ
Submitted (APR-2005) to the EMBL/GenBank/DDBJ
EMBL; AC091330; AAX80727.1; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE.
STRAIN=GUTat10.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Trypanosoma brucei.
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                                                                                                                                                                                       EMBL; U39650; AAK39188.1; -; Genomic_DNA.
HSSP; P05412; 1FOS.
Ensembl; C25A11.4; Caenorhabditis elegans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caenorhabditis elegans.
Bukaryota; Metazoa; Nematoda; Chromadorea;
Rhabditidae; Peloderinae; Caenorhabditis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-DEC-2001 (TrEMBLrel. 19, Last sequence up 01-MAR-2003 (TrEMBLrel. 23, Last annotation apical junction molecule protein 1, isoform Name=ajm-1; ORFNames=C25All.4;
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                                                                                                                                                                                                                                                                                                             The C. elegans sequencing 
"Genome sequence of the n
                                                                                                                                          WormPep;
                                                                                                                                                                                                                                                              investigating biology.";
Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=Bristol
                                                                                                                                                                   WormBase; WBGene00000100; ajm-1.
                                                                                                                                                                                                                                                                                                                                                            MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CBI_TaxID=6239;
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1148 AA;
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                                                                                                                                             C25A11.4c;
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                                                                                                                                                                                                                                                                                                                                                                                N2;
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                                                                                                                                             CE27085
                                                                                                                                                                                                                                                                                                                                                                                                           [LARGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42.5%;
                        42.5%;
                                                                                              137473 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kinetoplastida; Trypanosomatidae; Trypanosoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30,
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                                                                                                                                                                                                                                                                                                             nematode C.
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                                                                                                                                                                                                                                                                                                                                    consortium
                                                                                                                                                                                                                                                                                                                                                                                                              SCALE
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Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Last sequence update
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Created)
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Pred. No. 1.3e+02;
6; Mismatches 11
                           Score 62; I
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 341C60AD1FFFFF28 CRC64;
                                                                                                432F662CC8E20729 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1148 AA
                           DB 2; 1
1.5e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rhabditida; Rhabditoidea;
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                                                 Length 1148;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 963;
                                                                                                                                                                                                                                                                                                                  platform
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RESULT 14
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"Genome sequence of the nematode C. elegans:
investigating biology.";
Science 282:2012-2018(1998).
EMBL; U39650; AAM51517.1; -; Genomic_DNA.
HSSP, P05412; IFOS.
Ensembl; C25A11.4; Caenorhabditis elegans.
WormBase; WBGene00001100; ajm-1.
WormBase; WBGene00001100; ajm-1.
InterPro; IPR002893; Znf_MYND.
PROSITE; PS50865; ZF_MYND_2; 1.
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C7 CAEEL
Q8MQC7 CAEEL
Q8MQC7;
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Q18138 C
Q18138;
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01-JUN-2001 (TrEMBLrel. 17, Last sequence up
01-MAR-2004 (TrEMBLrel. 26, Last annotation
Apical junction molecule protein 1, isoform
Name=ajm-1; ORFNames=C25All.4;
Caenorhabditis elegans
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Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
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01-OCT-2002 (TrEMBLrel. 22, Last
01-MAR-2004 (TrEMBLrel. 26, Last
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Complete proteome.
SEQUENCE 1439 A/
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                                                       WormBase; WBGene00000100; a WormPep; C25All.4a; CE27083
                                                                                                      EMBL; U39650; AAK39187.1; -; Genomic_DNA.
HSSP; P05412; 1FOS.
Ensembl; C25A11.4; Caenorhabditis elegans.
                                                                                                                                                                                   investigating biology.";
Science 282:2012-2018(1998).
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                                                                                                                                                                                                                                                                                               MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                              STRAIN=Bristol
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Rhabditidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bukaryota; Metazoa;
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Peloderinae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Nematoda; Chromadorea; Rhabditida; Rhabditoidea; rinae; Caenorhabditis.
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51.6%;
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Pred. No.
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5; Mismatches
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RESULT 15
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A Jaillon O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,

A Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,

A Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,

Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,

Anthouard V., Jubin C., Castelli V., Katinka M., Vacherie B.,

Anthouard C., Skalli Z., Cattolico L., Poulain J., De Berardinis V.,

A Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,

A Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,

A Rellis M., Volff JN., Guigo R., Zody M.C., Mesirov J.,

A Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,

Wincker P., Lander B.S., Weisenbach J., Roest Crollius H.;

"Genome duplication in the teleost fish Tetraodon nigroviridis reveals

the early vertebrate proto-karyotype.";
  Query Match
Best Local S
Matches 12
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SEQUENCE
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetradontoidea; Tetraodontidae; Tetraodon.
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13-SEP-2005 (TrEMBLrel. 31, Created)
13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
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Complete proteome.
SEQUENCE 1480 AA; 175237 MW;
                                                                                                                                                                                 SMART; SM00233; PH; 1.
SMART; SM00325; RhoGEF; 1.
PROSITE; PS50010; DH_2; 1.
PROSITE; PS50003; PH_DOMAIN; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genoscope, Whitehead Institute Centre for Genome Researc.
Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
-I- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry w
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EMBL; CAAE01014723; CAG03630.1; -; Ge
                                                                                                                                                                                                                                                                                                       Pfam; PF00169;
Pfam; PF00621;
                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR001849;
InterPro; IPR000219;
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                                                                                                                                                                                                                                                                                                                                                                                                                                        preliminary data.
SIMILARITY: Conta
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  . Similarity
12; Conserv
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                                                                                                             1484
1484
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     Conservative
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                                                                                                                                                                                                                                                                                                    ; RhoGEF; 1.
                                                                                                                                                                                                                                                                                                                                   PH; 1.
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Pred. No. 2.6e
8; Mismatches
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Pred. No.
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Db 838 LKKTTEDDKLKKERDSLLASEQDLTESLR 866
Search completed: March 3, 2006, 13:26:09
Job time : 14.8397 secs

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No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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                                                                                                                                  seq length: 0
seq length: 2000000000
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Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       572060 seqs, 82675679 residues
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Gapop 10.0 , Gapext 0.5
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RLQKSQSSDLLERERESVLRREQEVAEERRN 31
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        US-09-050-516-44
US-10-278-547-44
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US-10-278-547-47
US-10-278-547-47
US-10-950-516-42
US-09-540-236-3120
US-10-99-138-26
US-09-949-016-8508
US-09-949-016-8508
US-09-949-016-8508
US-09-949-016-91280
US-08-365-103B-12
US-09-270-767-36272
US-09-370-767-36272
US-09-334-500-5602
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94, Appl
1280, Appl
14, Appl
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10, Appl
8, Appl
8, Appl
5148, Ap
5602, Ap
5602, Ap
5602, Appl
45, Appl
14846, A
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26, Appl
18714, A
8508, Ap
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42, Appl
3120, Ap
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|   | 5                | 44               | 3      | 2     | 41                | 0                   | 39                 | 38               | 37                | 8                   | 35                  | 34                   | ພ                  | 32                   | 31                 |                     | 29              | 8                  |  |
|---|------------------|------------------|--------|-------|-------------------|---------------------|--------------------|------------------|-------------------|---------------------|---------------------|----------------------|--------------------|----------------------|--------------------|---------------------|-----------------|--------------------|--|
|   | 50               | 50               | 50     | 50    | 50                | 50                  | 50.5               | 51               | 51                | 51                  | 51                  | 52                   | 52                 | 52                   | 52                 | 52                  | 52              | 52                 |  |
| • | 34.2             | 34.2             | 34.2   | 34.2  | 34.2              | 34.2                | 34.6               | 34.9             | 34.9              | 34.9                | 34.9                | ហ                    | ហ                  | 5                    | Ç                  | S                   | 35.6            | 5                  |  |
|   | 538              | 538              | 495    | 255   | 255               | 149                 | 550                | 1003             | 1003              | 868                 | 373                 | 1487                 | 919                | 859                  | 859                | 712                 | 538             | 482                |  |
|   | N                | N                | N      | N     | N                 | N                   | N                  | N                | N                 | 2                   | N                   | N                    | N                  | N                    | N                  | Ŋ                   | N               | N                  |  |
| • | US-09-718-096-12 | US-09-309-572-12 | - 1    | -278  | US-09-227-357-488 | US-09-270-767-42544 | US-09-538-092-1259 | US-09-438-185A-8 | US-09-198-452A-17 | US-09-543-681A-5357 | US-09-270-767-42838 | US-09-489-039A-12113 | US-09-949-016-6954 | US-09-252-991A-21413 | US-09-199-637A-281 | US-09-949-016-10600 | US-09-370-368-9 | US-09-538-092-1345 |  |
|   | Sequence 12,     | Sequence 12,     |        |       |                   |                     | Sequence 1259      | Sequence 8,      | -                 | Sequence 5357       | Sequence 428        | Sequence 12113       | Sequence 6954      |                      | æ                  | ٠.                  |                 | 134                |  |
|   | , Appı           | TOGA             | ddw 's | , App | App               | 4.                  | Ap                 | g                | rddv'             | o', Ap              | 2838, A             | ~                    | 04, AD             | ,                    | ddw ''             | ۶                   | Ţ               | 15, Ap             |  |

### ALIGNMENTS

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US-09-050-516-44
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                                 ATTORNEY AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: KLASS, MI
APPLICANT: KRATOCHVI
APPLICANT: ROBERTS-R
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                    ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Fast-SEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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                                                                                                                                                                                                                                    APPLICATION NUMBER: US/09/050,516 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44, Application US/09050516
5. 6627414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
VENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HAYDEN, MARK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EDWARD N.
                                                                                                                                                                                   08/828,855
   44:
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SEQUENCE CHARACTERISTICS:

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US-10-278-547-44
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 44, Application US/10278547 Patent No. 6660834 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 31; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                 TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/050,516

FILING DATE: «Unknown»

APPLICATION NUMBER: 08/828,855

FILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARE: PastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
TOPOLOGY: linear
MOLECULE TYPE: No. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO: 44:
                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 RLOKSOSSDLLERERESVLRREQEVAEERRN 31
                                                                             TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RLOKSOSSDLLERERESVLRREQEVAEERRN 31
                                                         STRANDEDNESS: single
                                                                                                                                                                         TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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100.0%; Pred. No. 9e-13;
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                                                                       ; MOLECULE TYPE: No. 6627414e US-09-050-516-47
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                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent No.
                                                                                                                                    INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 08/828
APPLICATION NUMBER: 08/828
FILING DATE: 31-WAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COMPATIBLE:
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 49
CORRESSPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                   REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
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reduce 100.0%; Score 146; DB 2; Local Similarity 100.0%; Pred. No. 7.6e-12; nes 31; Conservative 0; Mismatches of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                       TOPOLOGY: linear
                                                                                                                                                                                                                         TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 RLQKSQSSDLLERERESVLRREQEVAEERRN 31
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RUSSELL, JOHN C.
STROUPE, STEPHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                      single
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100.0%; Pred. No. 9e-13;
tive 0; Mismatches
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REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
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                                        Length 215;
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           Indels
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RLQKSQSSDLLERERESVLRREQEVAEERRN 31

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                                                                           Query Match
Best Local S
Matches 31
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                                                                                                                                                                                                                                                                                          TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                     NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: DOS
SOPTWARE: PASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
PRIEDMAN, PAULA N.
                                                                                                                                                                      TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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                                                                                             Similarity
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STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                          RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible
    RLOKSOSSDLLERERESVLRREQEVABERRN 103
                                                                                                                                                                                                                                                     TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                 STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 847/938-2623
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                                                                           100.0%; Score 146; DB 2; ilarity 100.0%; Pred. No. 7.6e-12; Conservative 0; Mismatches 0;
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KLASS, MICHAEL R.
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                                                                                                                   Length 215;
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                                                                               Gaps
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RESULT 5

Sequence 42, Application Patent No. 6660834
GENERAL INFORMATION:

Application US/10278547

BILLING-MEDEL, PATRICIA COHEN, MAURICE

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US-09-050-516-42
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RESULT 6
US-10-278-547-42
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; MOLECULE TYPE: No. 6627414e
US-09-050-516-42
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                                                                                                                                                                     Query Match
                                                                                                                                     Matches
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                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
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APPLICATION NUMBER: 08/8:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
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ADDRESSEE: Abbott Laboratories
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                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
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                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET:
                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: sir
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                                                                                                                                                                                                                                                                                            ENGTH: 679 amino acids
                                                                     537 RLOKSOSSDLLERERESVLRREQEVAEERRN 567
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RUSSELL, JOHN C.
STROUPB, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: POR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
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                                                                                                                                       Conservative
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                                                                                                                                     100.0%; Score 146; DB 2;
100.0%; Pred. No. 2.7e-111
/ative 0; Mismatches 0;
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                                                                                                                                                                        Length 679;
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SEQUENCE DESCRIPTION: SEQ ID NO: 42: US-10-278-547-42
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US-09-540-236-3120
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GENERAL INFORMATION:
APPLICANT: GATY L. Breton et al.
APPLICANT: GATY L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2005-001
CURRENT APPLICATION NUMBER: US/09/540,236
CURRENT FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 3840
SEQ ID NO 3120
                                                                                                                                                                                  Sequence 3120, Application US/09540236 Patent No. 6673910
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INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER: US/09/050,516

PILING DATE: <Unknown:
APPLICATION NUMBER: 08/828,855

FILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441

REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: line MOLECULE TYPE: No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
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ADDRESSEE: Abbott Laboratories
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                                                                                                                                                                                                                                                                                                              537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                            RLQKSQSSDLLERERESVLRREQEVAEERRN 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
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                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GRANADOS,
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KLASS, MICHAEL R.
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Pred. No. 2.7e-11;
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US-09-540-236-3120
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                                                                                                                            ; ORGANISM: human
US-08-681-219A-26
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TITLE OF INVENTION: METHOD OF PREPARING A PROTEIN ARRAY BASED ON
TITLE OF INVENTION: BIOCHEMICAL PROTEIN-PROTEIN INTERACTION
FILE REFERENCE: 65823/JPM/PT
CURRENT APPLICATION NUMBER: US/10/092,138A
CURRENT FILING DATE: 2002-03-06
NUMBER OF SEQ ID NOS: 34
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 26
                                                                                                                                                                          FILE REFERENCE: 48962
CURRENT APPLICATION NUMBER: US/08/681,219A
CURRENT FILING DATE: 1996-07-22
NUMBER OF SEQ ID NOS: 37
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 26
LENGTH: 828
                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Sato, Ta
APPLICANT: Yanagis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 26, Application US/10092138A Patent No. 6743630 GENERAL INFORMATION:
                                                              Matches
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                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: COMPOUNDS THAT INHIBIT THE ITITLE OF INVENTION: SIGNAL-TRANSDUCING PROTEINS TITLE OF INVENTION: DOMAIN AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 322
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 828
TYPE: PRT
                                                                                                                                                             TYPE: PRT
                                                            Local Similarity 40.
es 14; Conservative
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38
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                            RIOKSOSSDILERE----RESVIRREQEVAEER 29
RLOQTEREDLLEKKLAKAQCEQSHLMREHEDVQER
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                                                                                                                                                                                                                                                                                                                                           Yanagisawa, Junn
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                                                                             38.4%;
                                                            Score 56; DB
Pred. No. 25;
7; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7; Mismatches
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Pred. No. 25;
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                                                                                                                                                                                                                                                                                                          INTERACTION BETWEEN S AND THE GLGF (PDZ/I
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RESULT 10

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                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Human
US-09-949-016-8508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-949-016-8508
                                                                                                                                        US-09-543-681A-6489
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PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 18714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS:
SOFTWARE: FASTSEQ for
SEQ ID NO 8508
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APPLICANT: Keith Weinstock et al
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 18714, Application US/09248796A Patent No. 6747137
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                                                                                               Sequence 6489, Application US/09543681A Patent No. 6605709
                                                                                                                                                                                                                                                                                                                                              Query Match
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 60/074,725 PRIOR FILING DATE: 1998-02-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 60/231,498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: CL001307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Candida albicans
NPPLICANT: GARY BRETON
ITTLE OF INVENTION: NUCLEIC ACID
ITTLE OF INVENTION: DIAGNOSTICS
FILE REFERENCE: 2709.1002-001
                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
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                                                                                INFORMATION:
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                                                                                                                                                                                                                                                                                                                               Similarity
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Pred. No. 17;
                                                                                                                                                                                                                                                                                                                             Score 55; DB 2;
Pred. No. 18;
                     AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABII AND THERAPEUTICS
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SEQ.ID NO 6489
LENGTH: 737
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                                                           Matches
                                                                                       Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                 TELEFAX: (714) 760-95
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Proteus mirabilis
                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                            REGISTRATION NUMBER: 36,799
REFERENCE/DOCKET NUMBER: NIH054.001A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (714) 760-0404
                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS
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IIILE OF INVENTION: Mehods of Using Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                     MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Pelaning
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les 12; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Newport Beach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                           Local
                                                                                                                                                       TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
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                             1 RLQKSQSSDLLE----RERESVLRREQEVAEERR 30
                                                                           Similarity
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                                                                                                                                                                                                                                                                                                           Fedrick, Michael
                                                                                                                                                                  amino acid
 RLKREEEERLEORLKREHEEE-RREQELAEEEO 709
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620 Newport Center Drive, Sixteenth Floor
                                                                                                                                                                                  1898 amino acids
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Kim, In-Gyu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Steinert, Peter M.
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                                                                                                                                                                                                                                 760-9502
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Pred. No. 35;
                                                                          Score 54.5;
Pred. No. 98;
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                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                          Version
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RESULT 15
US-09-538-092-1280
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TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-800-644-94
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REFERENCE/DOCKET NUMBER: NIH054.001A
REFERENCE/DOCKET NUMBER: NIH054.001A
TELEPHONE: (714) 760-0404
TELEPHONE: (714) 760-9502
INFORMATION FOR SEQ ID NO: 94:
SEQUENCE CHARACTERISTICS:
LENGTH: 1998 amino acids
GENERAL INFORMATION:
APPLICANT: Giot, Loic
APPLICANT: Mansfield, Traci A.
APPLICANT: Mansfield, Traci A.
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
FILE REFERENCE: 15966-542
CURRENT FILING NUMBER: US/09/538,092
CURRENT FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/127,352
PRIOR FILING DATE: 1999-04-01
PRIOR FILING DATE: 1999-04-01
PRIOR FILING DATE: 2000-02-01
NUMBER OF SEQ ID NOS: 1387
SOFTWARE: CuraPatSeqFormatter Version 0.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1280, Application US/09538092 Patent No. 6753314
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FILING DATE: 14-FEB-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/056,200
FILING DATE: 30-APR-1993
AITORNEY/AGENT INFORMATION:
NAME: Fedrick, Michael F.
PRESISTATION NUMBER: 26 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIOM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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CURRENT APPLICATION DATA:
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APPLICANT: Park, Sang-Chul
TITLE OF INVENTION: Trichohyalin and Transglutaminase-3 and
TITLE OF INVENTION: Mehods of Using Same
NUMBER OF SEQUENCES: 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 37.3%;
Local Similarity 44.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 RLQKSQSSDLLE----RERESVLRREQEVAEERR 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                92660
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620 Newport Center Drive, Sixteenth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08800644
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Park, Sang-Chul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Steinert, Peter M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kim, In-Gyu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 54.5; DB 1; Length 1898; Pred. No. 98; 6; Mismatches 8; Indels 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5
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2

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; ORGANISM: Homo sapiens
; PEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number Q07283
US-09-538-092-1280
Search completed: March Job time: 5.3241 secs
                                                                                                                                                                                                                                                                                          SEQ ID NO 1280
LENGTH: 1898
                                                                                                                         Matches
                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                              TYPE: PRT
                                                            677 RIKREEEEERIEQRIKREHEEE-RREQELAEEEQ 709
                                                                                                                         15;
                                                                                           1 RLOKSOSSDLLE----RERESVLRREQEVAEERR 30
                                                                                                                         Conservative
                                                                                                                                      37.3%;
              3, 2006, 13:38:53
                                                                                                                         6; Mismatches
                                                                                                                                      Score 54.5;
Pred. No. 98;
                                                                                                                                                       DB 2;
                                                                                                                         8,
                                                                                                                                                      Length 1898;
                                                                                                                           Indels
                                                                                                                         5
                                                                                                                         Gaps
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Scoring table:

Perfect score: Title:

Searched:

Database

OM protein -

9

Sequence Sequence Sequence Sequence

Sequence Sequence Sequence

Sequence Sequence

Sequence

26, Appl 26, Appl 17463, A 27048, A 37588, A 351348, A 32501, Ap 312690, 351352, A 320148, A

Sequence Sequence Sequence Sequence Sequence Sequence

22, Appl 128235, 248030, 38902, A 233920,

152005

Sequence

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Minimum DB seq length: 0
Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
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Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GenCore version 5.1.7 Copyright (c) 1993 - 2006 Biocceleration Ltd
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              US-10-754-079-157

US-10-425-115-367723

US-10-732-923-335-9

US-10-732-923-19024

US-11-097-143-14634

US-11-097-143-21003

US-11-097-143-21003

US-11-097-143-6279

US-10-424-599-177876

US-11-097-143-6279

US-10-425-115-35829

US-10-425-115-35829

US-10-425-115-35829

US-10-425-115-25825

US-10-425-125-2170

US-10-425-125-2170
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Search time 13.6171 Seconds (without alignments) 951.209 Million cell updates/sec
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57370, Ap
57370, Ap
63265, A
111187,
28, Appl
                                                                                                                                          3359, Ap
19024, A
14634, A
3303, Ap
21003, A
176239,
                                                                                                                                                                                                                                 42, Appl
4761, Ap
157, App
367723,
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US-09-050-516-44
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; Patent No. US20
; GENERAL INFORU
; APPLICANT:
; APPLICANT:
                              CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UNDER: 08/828,85:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECHMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPHONE: 847/938-2623
    TELEX:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: HAYDEN, MARK
APPLICANT: HODGES, STEVEN C.
APPLICANT: KLASS, MICHAEL R.
APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: ROSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.
APPLICANT: OF INVENTION: FACENTS AND METHODS USEFUL
TITLE OF INVENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
TITLE OF INVENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                             ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                              STATE: I
                                                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516 PILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44, Application US/09050516
o. US20010010904A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GORDON,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BILLING-MEDEL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JULIAN
)S, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                             TRACT
                                                                                                                                                              08/828,855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-408-765A-2501

US-10-437-963-142690

US-10-450-763-51352

US-10-369-493-20148

US-10-437-963-152005

US-10-437-963-128235

US-10-437-963-128235

US-10-425-115-248030

US-10-425-115-2339220
      44:
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US-10-820-403-26

US-11-097-143-171463

US-11-097-143-27048

US-10-032-85-7588

US-10-032-95-7588

US-10-094-749-2506
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                                                                                   6065.US.P1
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Result No.

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39.77 39.77 39.00 39.00 38.77 38.77

SEQUENCE CHARACTERISTICS:

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RESULT 2
US-10-278-547-44
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Publication No. US20030082619A1
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 31; Conservative
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Best Local s
                                                                                                            TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 31 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
PILING DATE: <Unknown-
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
TOPOLOGY: linear MOLECULE TYPE: No. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 44:
                                                                                                                                                                                          NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: PastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 RIOKSOSSDILERERESVIRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RLOKSOSSDLLERERESVLRREQEVAEERRN 31
                                                      STRANDEDNESS: single
                                                                        TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                        TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Application US/10278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
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HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     No. US20010010904Ale
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 146; DB 3;
Pred. No. 8.4e-11;
                                                                                                                                                                                                                                    6065.US.P1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
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TOPOLOGY: linear

MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 44:
US-10-646-873-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-278-547-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 44, Application US/10646873 Publication No. US20040043406A1 GENERAL INFORMATION:
Query Match 100.0%; Score 146; 1
Best Local Similarity 100.0%; Pred. No. 8.
Matches 31; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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                                                                                                                                                                                                                                   TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTESEO for Windows Version 2.0
CURRENT APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION OLATA:
APPLICATION NUMBER: US/09/050,516
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/08/28,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                          NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 RLQKSQSSDLLERERESVLRREQEVABERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RLQKSQSSDLLERERESVLRREQEVALERRN 31
                                                                                                                                                                                             LENGTH: 31 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
                                                                                                                                                                                                                                                                                                          TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GORDON, JULIAN GRANADOS, EDWAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COHEN, MAURICE COLPITTS, TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 146; DB 4; 100.0%; Pred. No. 8.4e-11; ative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EDWARD N.
                 8.4e-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 4; Length 31;
                                          DB 4; Length 31;
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Indels

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RLOKSOSSDLLERERESVLRREQEVAEERRN 31

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                                                            Query Match
Best Local S
Matches 31
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                                                                                                                                                                                                     NFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acid
                                                                                                                                                TYPE: amino acide STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                 NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8:
FILING DATE: 31-WAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF
                                                                                                                                        MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION:
                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INVENTION:
                     RLQKSQSSDLLERERESVLRREQEVAEERRN 31
   RLOKSOSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/09050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E: Abbott Laboratories
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ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BILLING-MEDEL, PATRICIA COHEN, MAURICE COLPITTS, TRACEY L. FRIEDWAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                     847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
                                                           100.0%; Score 146; DB 3; llarity 100.0%; Pred. No. 6.6e-10; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IAYDEN, MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0010904A1
                                                                                                                                          No. US20010010904A1e
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                               08/828,855
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                                                                                                                                                                                                                                       47:
                                                                                                                                                                                                                                                                                                                     6065.US.P1
                                                                                            Length 215;
                                                                Gaps
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RESULT 5

RESULT 6 US-10-646-873-47

Sequence 47, Application US/10646873 Publication No. US20040043406A1 GENERAL INFORMATION:

APPLICANT:

BILLING-MEDEL, PATRICIA COHEN, MAURICE

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US-10-278-547-47
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                                                                           Matches
                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                  TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: DOS
SOFTWARE: FASUSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                            TOPOLOGY: linear MOLECULE TYPE: No. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 49
73
                                   1 RLOKSOSSDLLERERESVLRREQEVAEERRN 31
RLQKSQSSDLLERERESVLRREQEVALERRN 103
                                                                                                                                                                                                                                       STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Abbott Park
                                                                                                                                                                                                                                                                           LENGTH: 215 amino acids
                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BILLING-MEDEL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100 Abbott Park Road
                                                                           100.0%; Score 146; DB 4;
100.0%; Pred. No. 6.6e-10;
ative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          S, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MARK
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                                                                                                                     Length 215;
                                                                                  Indels
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                                                                                    Gaps
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PARENT NO. US20010010904A1

GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA APPLICANT: COHEN, MAURICE
APPLICANT: COLPIT'S, TRACEY L.
APPLICANT: FRIEDMAN, PAULA N.
APPLICANT: GORDON, MITTAN
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US-09-050-516-42
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                                                                                                                                                                                                                                                                                                                                                                                  Best Local
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INFORMATION FOR SEQ ID NO: 47:
                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: No. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                          73
                                                                                                                                                                                                                                                                                                                                                              31;
                                                                                                                                                                                                                                                                                                         1 RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                        RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
                   BILLING-MEDEL, PATRICIA COHEN, MAURIES E COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GRANADOS, EDWARD N. HAYDEN, MARK
HAYDEN, MARK
HODGES, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                Conservative
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HODGES, STEVEN C.
VT.ASS, MICHAEL R.
TON D
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                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 146; DB 4; 100.0%; Pred. No. 6.6e-10; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                  Length 215;
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STRANDENESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. US20010010904A1e
US-09-050-516-42
                                                                                                                                                                                                                                                                                                                       RESULT 8
US-10-278-547-42
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                                                                                                                                                                                                                                                                                    Sequence 42, Appropriate Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION UNMBER: 08/828
APPLICATION UNMBER: 1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,44
                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN
TITLE OF INVENTION: REAGENT
TITLE OF INVENTION: FOR DET
TITLE OF INVENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
TRACT
NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                           APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                     537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                      RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                 RLOKSOSSDLLERERESVLRREQEVAEERRN 567
                                                                                                                                                                                                                                                                                    Application US/10278547 vo. US20030082619A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: Abbott Laboratories
100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 146; DB 3; ilarity 100.0%; Pred. No. 2.2e-09; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KLASS, MICHAEL R. KRATOCHVIL, JON D. ROBERTS-RAPP, LISP
                                                                                                                                                                   COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                       GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              35,441
                                                                                                                                                     EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     42:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
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CORRESPONDENCE ADDRESS:

STREET: 100 Abbott Park Road CITY: Abbott Park

ADDRESSEE: Abbott Laboratories

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YNJUBCULE TYPE: NO. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 42: US-10-278-547-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                      US-10-646-873-42
                                                                                                                                                                                                                                                                                                                                                     Sequence 42, Ap
Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                   TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF TI
                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            537 RLQKSQSSDLLERERESVLRREQEVAEERRN 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 RLOKSOSSDLIERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/09/050,516 PILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 679 amino acids
                               CITY: Abbott Park
                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
                                                 ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                     Application US/10646873
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                   US20040043406A1
                                                                                                                                                                                                                                       GRANADOS,
                                                                                                                                                                                                                                                                   FRIEDMAN, PAULA N.
                   H
                                                                                                                                                                                                                                                                                                       OHEN.
                                                                                                                                                                                                                                                                                                      LLING-MEDEL, PATRICIA HEN, MAURICE
                                                                                                                                                                    OCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
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                                                                                                                                                                                  MICHAEL R.
                                                                                                                                                                                                                                                     JULIAN
                                                                                                                                                                                                                                     EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 146; DB 4;
Pred. No. 2.2e-09;
Mismatches 0;
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                                                                                                                                      THE GASTROINTESTINAL
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TOPOLOGY: linear;

MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-646-873-42
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US-10-106-698-4761
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Best Local Similarity 100.0%;
Matches 31; Conservative C
                                                                                                                                                                                                                                   SOFTWARE: PatentIn Ver. SEQ ID NO 4761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 4761, Application US/10106698 Publication No. US20030109690A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR APPLICATION NUMBER: US 60/163,280
PRIOR APPLICATION NUMBER: US 60/163,280
                                                                                                                                                                                                                                                                                 PRIOR FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 8564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
FILE REFERENCE: PA005P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Ruben et al
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
            LOCATION: (55)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids NAME/KEY: MISC FEATURE
LOCATION: (116)
                                                                                                            NAME/KEY: MISC_FEATURE
                                                                                                                                              FEATURE:
                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                               ENGTH: 172
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APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: CURRENTS

COMPUTER: 1BM Compatible

OPERATING SYSTEM: DOS

SOFTMARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/646,873

FILING DATE: 22-Aug-2003

CLASSIFICATION: CURROWN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION: IMPORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RLQKSQSSDLLERERESVLRREQEVAEERRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 08/828,855 FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 146; DB 4;
Pred. No. 2.2e-09;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6065.US.P1
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Similarity

97.3%;

Score 142; DB 4; Length 172; Pred. No. 1.6e-09;

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US-10-425-115-367723
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CURRENT APPLICATION NUMBER: US/10/754,079

CURRENT FILING DATE: 2004-01-07

PRIOR APPLICATION NUMBER: US 10/155,922

PRIOR FILLING DATE: 2001-06-04

PRIOR PILLING DATE: 2001-06-04

PRIOR APPLICATION NUMBER: PCT/JP01/04691

PRIOR APPLICATION NUMBER: JP 2000-166903

PRIOR FILLING DATE: 2000-06-05

PRIOR APPLICATION NUMBER: JP 2001-347340

PRIOR APPLICATION NUMBER: JP 2001-347338

PRIOR FILLING DATE: 2001-11-13

PRIOR FILLING DATE: 2001-11-13

PRIOR FILLING DATE: 2001-11-13

PRIOR APPLICATION NUMBER: JP 2001-347338

PRIOR APPLICATION NUMBER: JP 2001-347338
                                                                                                                                                                                                                                                                                                                                                              Sequence 367723, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 157
                                                                                               NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 367723
                                                                                                                                       APPLICANT: Kovalić, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(5322)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
                                                                                                                                                                                                                                                                                                                 APPLICANT: La Rosa, Thomas J. APPLICANT: Kovalic, David K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Hirai, APPLICANT: Takeb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 equence 157, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: JP 2003-1891 PRIOR FILING DATE: 2003-01-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Takebe, Kyoko
TITLE OF INVENTION: OLIGOPEPTIDES FOR PROMOTING HAIR GROWTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 1439
TYPE: PRT
ORGANISM: Mus Musculus
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
                                                                        ENGTH: 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 2001-12-05
APPLICATION NUMBER: JP 2001-371336
FILING DATE: 2001-12-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        218 RLOKRROEELREPLIRRDLELRREQELRREQELROEOR 255
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 RLQKSQSSDL-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 68;
Pred. No.
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0; Mismatches
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15;
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Sequence 3359, Application US/10732923

Publication No. US20050108791A1

GENERAL INFORMATION:

APPLICANT: Edgerton, Michael D

TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES

FILE REFERENCE: 38-15(52796) C

CURRENT APPLICATION NUMBER: US/10/732,923

CURRENT FILING DATE: 2003-12-10

PRIOR APPLICATION NUMBER: 10/310,154

PRIOR APPLICATION NUMBER: 10/310,154

PRIOR APPLICATION NUMBER: 10/310,154

PRIOR APPLICATION SEQ ID NOS: 24149

SEQ ID NO 3359

LENGTH: 1407
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                                                                                                                                       ; ORGANISM: Drosophila melanogaster US-10-732-923-19024
                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-732-923-19024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-732-923-3359
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                                                                                                                                                                      NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 19024
LENGTH: 527
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                     Sequence 19024, Application US/10732923 Publication No. US20050108791A1 GENERAL INFORMATION:
                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                     Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
                                                                                                                                                                                                                                                                                                                     APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: unsure
LOCATION: (1)..(293)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity nes 12; Conserv
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                  1 RLQKSQSSDL---LERERESVLRREQEVABE 28
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Pred. No. 72;
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Minimum DB
Maximum DB
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Perfect score:
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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/cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
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US-11-087-099-11126

US-11-087-099-1129

US-10-467-657-4618

US-11-087-099-4004

US-11-087-099-1579

US-11-087-099-1574

US-11-087-099-1574

US-11-087-099-1316

US-11-087-099-370

US-11-087-099-370
              US-11-087-099-8238
US-11-072-512-2316
US-10-9212-234-1180
US-11-087-099-370
US-11-129-442-47
US-11-072-512-3378
US-10-770-726-77
US-11-098-686-10237
US-11-202-268-10
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Sequence 10782, A
Sequence 11126, A
Sequence 4618, Ap
Sequence 4618, Ap
Sequence 4104, Ap
Sequence 1159, Ap
Sequence 2316, Ap
Sequence 2316, Ap
Sequence 2116, Ap
Sequence 3170, Appl
Sequence 47, Appl
Sequence 10232, A
Sequence 10232, Ap
Sequence 10, Appl
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SEQ ID NO 10782

LENCTH: 166

TYPE: PRT

ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)...(166)
OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-10782
                                                            Sequence 11126, Application US/11087099

Publication No. US20060041961A1

GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450) B EP
CURRENT APPLICATION UNMERS: US/11/087,099

CURRENT FILING DATE: 2005-03-22

NUMBER OF SEQ ID NOS: 12464

SEQ ID NO 11126

LENGTH: 487

TYPE: PRT
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                                   ; ORGANISM: Zea mays
US-11-087-099-11126
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Best Local :
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TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
      Query Match
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US-11-087-099-9069
US-11-087-099-7393
US-10-131-826A-160
US-10-973-115B-160
US-11-087-099-12397
US-11-087-099-12397
US-11-087-099-5450
US-11-087-099-5450
US-11-072-512-3063
US-11-000-463-455
US-11-019-711-48
US-11-019-711-48
US-11-019-711-51
US-11-226-657-146
US-11-018-71
US-11-018-71
US-11-018-77
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US-11-018-77
US-11-018-77
US-11-166-892-15
       Score 56.5;
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1 RLOKSOSSDLLERERESVLRREQEVAEER 29

Best Local Similarity 37.9%; Matches 11; Conservative 1

Pred. No. 5.9; 1; Mismatches

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GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.

TITLE OF INVENTION: Genes and Uses for Plant Imperior of Inventior of Inventior
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                                                                                                                                                                                           RESULT 5
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PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 4618
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al
                                                                       Sequence 4004, Application US/11087099 Publication No. US20060041961A1
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APPLICANT: FONTANA MARIA Rita
APPLICANT: FIZZA MARIAGRAZIA
APPLICANT: MASIGNANI Vega
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Eliaabetta
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APPLICANT: MONACI Eliaabetta
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CURRENT FILING DATE: 2003-08-11
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TYPE: PRT
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US-11-087-099-1159
                                                                                                                         ORGANISM: Gibberella fujikuroi
US-11-087-099-4574
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                                                                                                                                                                       APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 4574
LENGTH: 451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 1159
LENGTH: 499
LENGTH: 499
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                                                                                                                                                                                                                                                                                                                  Sequence 4574, Application US/11087099 Publication No. US20060041961A1 GENERAL INFORMATION:
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Best Local S
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ORGANISM: Oryza sativa
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(235)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                          TYPE: PRT
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Local Similarity 42.9%;
hes 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                      Local Similarity
nes 13; Conserv
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QKSQSSDLLERERESVLRREQ---EVAEERR 30
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Pred. No. 14;
6; Mismatches
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                                                                     Score 50.5;
Pred. No. 30;
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Pred. No. 6.2;
                                                      Mismatches
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KKKEEEEQKQREEEERLHREQLEREAAEEAR 77

RESULT 8 US-11-087-099-8238

Sequence 8238, Application US/11087099 Publication No. US20060041961A1

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2316
                                                                                                                                                                                                                                    APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR APPLICATION NUMBER: JP 2001-379298
                                                                                                                                                  PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2316
LENGTH: 226
                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                            IRIE, RYOTARO
TAMECHIKA, ICHIRO
SEKI, NAOHIKO
YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
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SUGIYAMA, YULL
TETSUJI
KSQSSDLLERERESVLRREQEVAEER 29
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NAGAI, KEIICHI
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YAMAMOTO, JUN-ICHI
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                                   Conservative
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                                                33.6%;
                                                   Score 49; DB
Pred. No. 22;
                                   Mismatches
                                                                   Length 226;
                                   Indels
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US-11-129-442-47
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SOPTWARE: pt SEQ genes Version 1.0
SEQ ID NO 1180
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SEQ ID NO 370
LENGTH: 446
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                                                                                                              Sequence 47, Application US/11129442 Publication No. US20060002951A1 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                              Query Match
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TITLE OF INVENTION: Genes and Uses for PI.
FILE REFERENCE: 38 e-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
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CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
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TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
APPLICANT: CEN, Shan
APPLICANT: GTO, Fei
TITLE OF INVENTION: Inhibition of the tRNALy83-Primed Initiation of Reverse
TITLE OF INVENTION: Transcription in HIV-1 by APOBEC3G
FILE REFERENCE: 11168.257
                                                           APPLICANT: Kleiman, Lawrence
APPLICANT: CEN, Shan
APPLICANT: GUO, Fei
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Local Similarity 39.3%;
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                                                                                                                                                                                                                                                   58 KIEKEKTEDLL-KEKDEILRK-KEVEQEK
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Pred. No. 42;
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2 LQKSQSSDLLERERESVL-----RREQEVAEER 29

-11-072-512-2316

Nation No. US20060029945A1

; TYPE: PRT; ORGANISM: Candida albicans US-11-087-099-8238

Local Similarity

34.2%; Score 50; DB 7; 32.4%; Pred. No. 1.1e+02;

Length 1197;

Indels

6,

11;

Conservative

10;

Mismatches

SEQ ID NO 8238 LENGTH: 1197

GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REPERENCE: 38-21 (53450) B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464

CURRENT APPLICATION NUMBER: US/11/129,442
CURRENT FILING DATE: 2005-05-16

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RESULT 14
US-10-770-726-77
; Sequence 77, Application US/10770726
; Publication No. US20050266409A1
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US-11-072-512-3378
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TYPE: PRT
; ORGANISM: Murine leukemia virus
US-11-129-442-47
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PRIOR FILING DATE: 2004-05-14
NUMBER OF SEQ ID NOS: 47
SOFTWARE: PatentIn version 3.2
SEQ ID NO 47
SEQ ID NO 47
                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOPTWARE: Patentin Ver. 2.1
SEQ ID NO 3378
                                                                                                                                                                               Query Match 33.6%;
Best Local Similarity 48.1%;
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ORGANISM: Homo sapiens
-11-072-512-3378
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APPLICANT:
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APPLICANT:
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APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 0084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
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                                                                                                  3 QKSQSSDLLERERESVLRREQEVAEER 29
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292 QKVQMT--LERERRLLLRQSQEQWQEK 316
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WAKAMATSU, AI
SATO, HIROYUKI
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YAMAMOTO,
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IRIE, RYOTARO
TAMECHIKA, ICHIRO
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YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
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NAGAI, KEIICHI
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)TO, JUN-ICHI
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Pred. No. 67;
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; ORGANISM: Homo sapiens US-10-770-726-77
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US-11-098-686-10232
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Search completed: March Job time: 2.47619 secs
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CURRENT APPLICATION NUMBER: US/11/098,686
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31318
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: US 60/416,395
PRIOR FILING DATE: 2002-10-04
NUMBER OF SEQ ID NOS: 11433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Brown, Eugene
APPLICANT: Liu, Wei
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
TITLE OF INVENTION: CANCERS
FILE REFERENCE: AMIO1079 (031896-01000)
CURRENT APPLICATION NUMBER: US/10/770,726
CURRENT APPLICATION NUMBER: US/10/770,726
CURRENT FILING DATE: 2004-02-04
NUMBER: PATENTIN VORS: 48640
SOFTWARE: PATENTIN VERSION 3.2
SEQ ID NO 77
LENGTH: 4128
TYPE: PRT
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 10232
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 10232, Application US/11098686 Publication No. US20060024696A1
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Best Local Similarity
Matches 13; Conserv
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Best Local Similarity
Matches 15; Conserv
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TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                       LENGTH: 8746
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Pred. No. 5.6e+02;
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Pred. No. 1.3e+03;
B; Mismatches 2;
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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| 53                 | 53                 | 53.5     | 53.5     | 54.5     | 54.5     | 54.5     | 54.5     | 54.5     | 55 .     | 55       | 55       | 55       | 55.      | 55                 | 55       | 55       | 55       | 55       | 55.5     | 55.5     |   |
| 30.3               | 30.3               | 30.6     | 30.6     | 31.1     | 31.1     | 31.1     | 31.1     | 31.1     | 31.4     | 31.4     | 31.4     | 31.4     | 31.4     | 31.4               | 31.4     | 31.4     | 31.4     | 31.4     | 31.7     | 31.7     |   |
| 362                | 80                 | 701      | 583      | 1158     | 1158     | 1158     | 1158     | 1158     | 1277     | 1277     | 958      | 958      | 958      | 942                | 789      | 679      | 581      | 406      | 531      | 346      |   |
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| Abo68987 Pseudomon | Aaw27130 Equine rh | Procein  |          |          |          | Human    |          | Novel    | Disea    |          | Human ne |          |          | Aam39949 Human por |          | Prote    |          | dogord   |          | Humar    | 1 |

## ALIGNMENTS

AAW79679 standard; protein; 35

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RESULT 1
AAW79679
ID AAW7
XX
AC AAW7
XX
AC 11-J
XX
Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                Synthetic CS198 derived peptide #3
                                                                                                                                                                                                                                                                             11-JAN-1999
                                                                                                                                                                                                                                                                                           AAW79679;
                                                                                                                                                           31-MAR-1997;
                                                                                                                                                                        30-MAR-1998;
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                                                                                                                                                                                                    WO9844159-A1
                                                                                                                                                                                                                              pancreatitis.
                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                           97US-00828855
                                                                                                                                                                         98WO-US006251
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AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's ossophagus,

gastric ulcer,

gastritis, leiomyoma, polyps,

cancer, Barret's oesophagus, Crohn's disease, ulcerative

New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.

Claim

26; Page 103; 127pp; English.

Billing-Medel PA, Granados EN, Hay

(ABBO ) ABBOTT LAB

Roberts-Rapp L,

Hayden M, Hodo L, Russell JC,

M, Colpitts TL, Friedman PN, Gordon J; Hodges SC, Klass MR, Kratochvil JD; JC, Stroupe SD;

Cohen M,

WPI; 1998-542714/46.

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RESULT 2
AAE07322
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Best Local Similarity
The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic
                                                                                                                                                               Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                          The invention relates to a method of detecting the presence of a target CS 198 polymuclectide comprising contacting the test sample with at least one CS 198 specific polymuclectide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer.
                                                                                                                                        Claim 17; Page 52; 68pp;
                                                                                                                                                                                                                  WPI; 2001-496163/54.
                                                                                                                                                                                                                                          Roberts-Rapp L,
                                                                                                                                                                                                                                                       Granados
                                                                                                                                                                                                                                                                Billingel PA,
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(HODG/)
(KLAS/)
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ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
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HODGES S C.
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GRANADOS E N.
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Hayden M,
L, Russell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #3.
                                                                                                                                         English.
                                                                                                                                                                                                                                        Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
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Pred. No. 5.1e-17;
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Kratochvil J
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AADA26382
ID ABA26382
AC ADA2
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AC CS15
CS Synt
XX CS15
KW CS15
KW CS15
KW CS16
KW GS16
CS Synt
XX OS2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer prognosticating; cancer prevention; can
gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic peptide based on
                                                                                                                                                                                                                  Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                         (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(GORD/)
(GORD/)
(GRAN/)
(HAYD/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-NOV-2003
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30-MAR-1998;
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                                                                                                                                            WPI; 2003-596961/56.
                                                                                                                                                                                                                                                                                                                (ROBE/)
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                                                                                                                                                                                         Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                               (KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                       (KLAS/)
                                                                                                                                                                                                                                                                                                                                                          COLPITTS T L.
FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               35;
                                                                                                                                                                                                                                                                                       ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
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                                                                                                                                                                                         Cohen M,
Hayden MA,
L, Russell
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98US-00050516.
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100.0%; Pred. No. 5.1e-17;
tive 0; Mismatches 0;
                                                                                                                                                                                           Colpitts TL, Fried Hodges SC, Klass JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CS198 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  35
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                                                                                                                                                                                                                       Friedman
Klass MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer;
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                                                                                                                                                                                                                       PN, Gordon
Kratochvil
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comprises detecting

Detecting the presence of a target CS198 polynucleotide in a test comprises contacting the sample with a CS198 specific polynucleoti

polynucleotide and

test

the presence of the target CS198 polynucleotide

sample.

diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.

CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in

describes a method of detecting the presence of a target leotide in a test sample. The method comprises contacting

The invention Claim 17,

Page 51;

67pp;

English

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ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS ALPPEVFSPTPDENSDONSRSSSOASGITGSYSVS

35 0

Matches Query Match

35;

Conservative

0

Mismatches

Local

Similarity

100.0%;

Score 175; DB 6; Pred. No. 5.1e-17;

Length Indels

0

Gaps

0

0

Sequence 35

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Gastrointestinal tract; GI tract; CS198; cancer; gene therapy
                                                                                                                                                                                                                                                                        17-JUN-2004
                                                                                                                                                                                                                                                                                     ADN17175
                                                                                                                                                                                                                                                                                                  ADN17175 standard; peptide; 35 AA.
                                                                                                                                                              31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                  04-MAR-2004
                                                                                                                                                                                                               US2004043406-A1
                                                                                                                                                                                                                             Unidentified
                                                                                                                                                                                                                                                         CS198 peptide
                                                                                                                                                                                    22-AUG-2003; 2003US-00646873
Diagnosing diseases such as cancer of the detecting aberrant expression or activity
                      WPI; 2004-313754/29
                                  Roberts-Rapp
                                                                     (ROBE/)
                                                                                                       (GRAN/)
                                                                                                                                   (COTE/)
                                                                                         (KELAS)
                                                                                                                                                  (ATTF/)
                                                                                   KRAT/
                                                                                                  HODG/
                                                                                                                            FRIE/)
                                                                                               COHEN M.
COLPITTS T L.
FRIEDMAN P N.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                              ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                  BILLINGEL P A.
                                                                                   KLASS M R.
KRATOCHVIL J
                                           EN,
                                                 PA,
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                                                                                                                                                                                                                                                                        (first
                                          Cohen M,
Hayden MA,
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                                   Russell
                                                                                                                                                                                                                                                                        entry)
                                          Colpitte TL
Hodges SC,
                                   'n,
                                    Stroupe
                                                 TL,
                                    SD;
                                           Klass
                                           Friedman
Klass MR,
 gastrointestinal tract, b of the CS198 polypeptide,
                                           PN, Gordon
Kratochvil
                                           ą;
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and

host cell

culturing

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Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polymucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polympide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 35 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 17;
           example, N and P may be used to treat disorders associated with decree expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be us to produce the colon cancer-associated Ps, by inserting the nucleic ac
                                                                                          cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; colon cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human colon cancer antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAG73987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAG73987 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 associated treatment methods
                                                                                                                                                                                                                                 Nucleic acids encoding useful for preventing,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200122920-A2
                                                                                                                                                         AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human (AAG7354) and proteins (P),
                                                                                                                                                                                                                                                                                                   WPI; 2001-235357/24.
                                                                                                                                                                                                                                                                                                                                Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                               03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                            29-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                            28-SEP-2000; 2000WO-US026524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         colorectal carcinoma
                                                                                                                                                                                                    Claim 11; Page 6550-6551; 9803pp;
                                                                                                                                                                                                                                                                                                                                                              (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            35;
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                                                                                                                                                                                                                                                                                                                                Barash SC,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                             99US-0157137P.
99US-0163280P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        colon
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                                                                                                                                                                                                                                     4277 human
diagnosing
                                                                                                                                                                                                                                                                                                                                  Birse CE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer antigen; diagnosis; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    172
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                     colon cancer-associated polypeptides, and/or treating colorectal cancers.
                                                                                                                                                                                                       English.
                                                                                                                                                                                                                                                                                                                                    Rosen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ID NO:4751
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he nucleic acids
oteins. N and P
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Matches 35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922
                                                                                                 This sequence represents the C-terminal of the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulger, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                New gastrointestinal polynucleotides, CS198, and their detection for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastriti
                                                                                                                                                                                                                                                                                                                             WPI;
                                                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                       Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                      Billing-Medel PA,
Granados EN, Hay
                                                                                                                                                                                                                                                                                                                                                                                                                                              31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9844159-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pancreatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAW79681;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAW79681 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 172
                                                                                                                                                                                                                                                                                                                                                                                                                   (ABBO ) ABBOTT LAB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                             1998-542714/46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens.
                                                                                                                                                                                                                                        26;
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   Similarity
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                                                           215
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                                                                                                                                                                                                                                      Page 103; 127pp; English.
100.0%; ilarity 100.0%; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
larity 100.0%;
Conservative 0
                                                                                        pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first
                                                                                                                                                                                                                                                                                                                                                       PA, Cohen M, Colpitts TL,
Hayden M, Hodges SC, Klass
L, Russell JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98WO-US006251.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C-terminal.
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Score 175; DB 2;
Pred. No. 4.6e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 175; DB 4;
Pred. No. 3.5e-16;
Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₽
                                                                                                                                                                                                                                                                                                                                                                      Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             35
                                                                                                                                                                                                                                                                                                                                                                      lman PN, Gordon J;
Kratochvil JD;
                             Length 215;
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The invention relates to a method of detecting the presence of a target CC CS 198 polynucleotide comprising contacting the test sample with at least cone CS 198-specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CC The CS 198 polynucleotides, polypeptides and antibodies are useful for CC treating, diagnosing, staging, monitoring, prognosticating, preventing, CC treating or determining predisposition to diseases and conditions of the CC clerative colitis, pancreatitis and Barret's oceanings. The CS 198 polypeptides are useful as standards or reagents in diagnostic clerative colitis, pancreatitis and Barret's oceanings. The CS 198 cpplypeptides are useful as standards or reagents in diagnostic tests and for screening for conditions or diseases associated complexity each as a component or as target sites for various therapies. CC antibodies directed against at least one epitope contained within these collypeptides are useful as delivery agents for therapeutic agents, in CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used CC with CS 198, particularly cancer. Monoclonal antibodies may also be used CC method of the invention provides an alternative, non-surgical diagnostic method of the invention provides an alternative, non-surgical diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                    Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, contacting test sample with at least one CS 198-specific polynucle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CS 198; gastrointestinal tract disease; GI tract; cancer; gas gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-496163/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Billingel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Barret's oesophagus; gene therapy; drug screening; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human CS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAE07324
                                                                                                                                                                                                                                                                                                        Claim 17; Page 52-53; 68pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (FRIB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (COLF/)
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                                                                                                                                                                                                                                                                                                                                                                                                                               Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (HAYD/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KRAT/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                104
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COLPITTS T L.
PRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       198 protein C-terminal portion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                         PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                                                                                               , Cohen
Hayden
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                               Cohen M,
1yden M,
Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - 0
                                                                                                                                                                                                                                                                                                                                                                                                                              Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   215
                                                                                                                                                                                                                                                                                                        English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                138
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                                                                                                                                                                                                                                                                                                                                                                                                                                               PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                      polynucleotide.
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RESULT 8
ADA26384
ID ADA2
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Best Local S
Matches 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CS198; cancer diagnosis; cancer cancer prognosticating; cancer pugastrointestinal tract disorder;
                                                                                                                                                                                                                                                                                                                                                                                                Billingel
Granados E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          method capable of detecting early stage GI tract disease such as cancer. The present sequence is C-terminal portion of human CS 198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US2003082619-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADA26384 standard; protein; 215
The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their
                                                                                                                                                                                                                                     Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-MAR-1997;
30-MAR-1998;
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(COHE/)
(COLP/)
(FRIE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-OCT-2002;
                                                                                                                                                                                                                                                                                                                                                                         Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             104
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35; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                    EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KLASS M R.
KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
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                                                                                                                                                                            Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
ilarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                                                                                                         Cohen M,
Hayden MA,
L, Russell
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98US-00050516.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  based
                                                                                                                                                                          67pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                         Colpitts TL,
Hodges SC,
L JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer staging; cancer mo cancer prevention; cancer;
                                                                                                                                                                            English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score
Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     175; DB 4;
No. 4.6e-16;
                                                                                                                                                                                                                                                                                                                                                                              Klass
SD;
                                                                                                                                                                                                                                                                                                                                                                                                  Friedman
Klass MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        35
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                                                                                                                                                                                                                                                                                                                                                                                                  PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             215;
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Best Local S
Matches 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fragments or complements.
                                                                                                 WPI;
                                                                                                                                                                                                                                                                   31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                            04-MAR-2004.
                                                                                                                                                                                                                                                                                                                                            Unidentified
                                                                                                                                                                                                                                                                                                                                                              Gastrointestinal
                                                                                                                                                                                                                                                                                                                                                                             CS198
                                                                                                                                                                                                                                                                                                                                                                                              17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                              ADN17177 standard;
                                                                                                                          Granados EN,
                                                                                                                                 Billingel PA,
                                                                                                                                                                                                                                          (COHE/)
                                                                                                                                                                                                                                                                                             22-AUG-2003;
                                                                                                                                                                                                                                                                                                                             US2004043406-A1
                                                                                                                                                                                                                                                                                                                                                                                                              ADN17177;
                                                                                                                Roberts-Rapp
                                                                                                                                                                                  (KLAS/
                                                                                                                                                                                                                           (FRIE/
                                                                                                                                                  (STRO/)
                                                                                                                                                                           œat,
                                                                                                                                                                                                   HAYD,
                                                                                                                                                                                                           GRAN/
                                                                                                                                                                                                                                    COLP/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       104
                                                                                                 2004-313754/29
                                                                                                                                                                                                                                                                                                                                                                             protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        35;
                                                                                                                                                                                       GORDON J.
) GRANADOS E N.
) HAYDEN M A.
) HODGES S C.
                                                                                                                                                                                                                         BILLINGEL P.
COHEN M:
COLPITTS T L
FRIEDMAN P N
                                                                                                                                                 KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                  HODGES S C
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nilarity 100.0%;
Conservative 0
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                                                                                                                                                                                                                                                                                             2003US-00646873.
                                                                                                                Cohen M,
Hayden MA,
L, Russell
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                                                                                                                                                                                                                                                                    9805-00050516
                                                                                                                                                                                                                                                                            97US-00828855
                                                                                                                                                                                                                           PH
Z.
                                                                                                                                                                                                                                                                                                                                                              tract;
                                                                                                                                                                                                                                                                                                                                                                                                                              protein; 215
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                                                                                                                                                                                                                                                                                                                                                                                               entry)
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                                                                                                                         Colpitts TL,
Hodges SC,
                                                                                                                 'n,
                                                                                                                                                                                                                                                                                                                                                               tract;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 175; DB 6;
Pred. No. 4.6e-16;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          composition and methods are useful in
                                                                                                                 Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                               CS198;
                                                                                                                  Klass MR,
SD;
                                                                                                                                   Friedman
                                                                                                                                                                                                                                                                                                                                                               cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         35
                                                                                                                           PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                               gene
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                                                                                                                                                                                                                                                                                                                                                               therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           215;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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The invention relates to reagents and methods for detecting the gastrointestinal (GI) tract. The method involves detect presence of target CS198 polynucleotide in the test sample and compositions of the present invention are useful for the

ves detecting div

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for the diagnosis associated with

The methods diseases the

prevention

Claim

17;

SEQ

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NO 47;

67pp;

English

Diagnosing diseases such as detecting aberrant expression associated treatment methods

expression nt methods.

cancer of the on or activity

gastrointestinal tract, of the CS198 polypeptid

polypeptide,

λĢ and

aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the

such as cancer

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Best Local S
Matches 35
The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activity in the diagnosis and/or treatment of cancer, leukaemia, nervous system diagnosis, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.
                                                                                                                                                                  Nucleic acids encoding in diagnosis and gene t
                                                                                                                                                                                                                                         Xue AJ,
                                                                                                                                                                                                                                                                                                                                                                                03-FEB-2000;
27-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                   05-FEB-2001; 2001WO-US004098.
                                                                                                                                                                                                                                                                                                                                                                                                                                            09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200157190-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAM79574;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAM79574 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                       (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                      y YT, Liu C,
Y, Zhao QA,
AJ, Yang Y,
                                                                                                                                                                                                                  2001-476283/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         104
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2000US -00560875.

2000US -00598075.

2000US -00620325.

2000US -0062549361.

2000US -0063561.

2000US -0063351.

2000US -00693325.

2000US -00693325.
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ilarity 100.0%;
Conservative 0
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                                                                                                                                          288; 6221pp;
                                                                                                                                                                                                                                       Wang D, W
                                                                                                                                                                                                                                  Drmanac RT, and D, Wang J
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                                                                                                                                                                  polypeptides with therapy.
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                                                                                                                                            English.
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Pred. No. 4.6
0; Mismatches
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J, Zhang J, Ren
Goodrich R;
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4.6e-16;
eg 0;
                                                                                                                                                                              cytokine-like
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Query Match
Best Local S
Matches 35
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Best Local (
                                                                                                                                                                         This sequence represents the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative colitis, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gastrointestinal tract; GI tract; cancer; disease; detection; (human; predisposition; treatment; Barret's oesophagus; gastric gastritis; leiomyoma; polyps; Crohn's disease; ulcerative coli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AAKS2582) and 3666 (AAM80020) are omitted as the relevant pages sequence listing were missing at the time of publication
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Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-OCT-1998
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                                                                                                       Sequence 679
                                                                                                                                                        pancreatitis
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                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 26; Page 100-102; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1998-542714/46
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  100.0%;
llarity 100.0%;
Conservative 0
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Hayden M, Hod
L, Russell JC,
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Hodges SC, Klass
JC, Stroupe SD;
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Pred.
Score 175; DB 2;
Pred. No. 1.8e-15;
Mismatches 0;
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No. 1.8e-15;
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MR, Kratochvil
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The invention relates to a method of detecting the presence of a target CC S198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting Cd diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for CC treating, diagnosing, staging, monitoring, prognosticating, preventing, CC treating or determining predipposition to diseases and conditions of the CG I tract such as cancer, gastric ulcer, gastritis, Crohn's disease, CC ulcerative colitis, pancreatitis and Barret's ossophagus. The CS 198 CC polypeptides are useful as standards or reagents in diagnostic memunoassays, as components or as target sites for various therapies. CC antibodies directed against at least one epitope contained within these CC polypeptides are useful as delivery agents for therapeutic agents, in CG diagnostic tests and for screening for conditions or diseases associated CC with CS 198, particularly cancer. Monoclonal antibodies may also be used CC polynucleotide is also useful in gene therapy and drug screening. The CS 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-MAR-1998;
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                                                                                                                                                                                                                                                                                    Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprise contacting test sample with at least one CS 198-specific polynucleotide.
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                                                                                                                                                                                                                                                          Claim 17,
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DB; AAD13637.
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ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
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HODGES S C.
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GRANADOS E N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                    Friedman
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Kratochvil JD;
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ARBSULT 13
AAM78590
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              The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, hammanomodulatory activity and activity inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; cytokine; cell proliferation; cell differentiation; vaccine; peptide therapy; stem cell growth factor; haematop tissue growth factor; immunomodulatory; cancer; leukaemia;
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Ma Y,
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27-APR-2000;
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                                                                                                                                                                                                                                                                                                                                                   Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nervous system disorder; arthritis; inflammation.
                                                                                                                                                                                                                                                                                                          Claim
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Zhao (
Var
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                                                                                                                                                                                                                                                                                                          20; Page 3512-3514; 6221pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 2000US-00496914.
; 2000US-00560875.
; 2000US-00598075.
; 2000US-00620325.
; 2000US-00629325.
; 2000US-00633561.
; 2000US-00693325.
; 2000US-00728422.
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Wejhrman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Drmanac RT, P
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Pred. No. 1.8e-15
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J, Zhang
Goodrich R
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PT 23-OV
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Best Local S
Matches 35
                                                                                                                                                                                                                                                                                                                                                                                                                      Billingel PA,
Granados EN,
Roberts-Rapp L
The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in
                                                                                                                                                                                                             Claim 17; Page 49-50; 67pp; English.
                                                                                                                                                                                                                                                                                detecting
                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-596961/56.
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(COHE/)
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30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Predicted
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HODGES L

HODGES L

KLASS M R.

KLASS M R.

RATIOCHVIL J D.

ROBERTS-RAPP L.

ROBERTS S D.
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COHEN M.
COLPITS T L.
PRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
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                                                                                                                                                                                                                                                                                the presence of a target CS198 polynucleotide in a test sample contacting the sample with a CS198 specific polynucleotide and the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid sequence
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llarity 100.0%;
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L, Russell
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Hodges SC,
JC, Stroupe
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Pred. No. 1.8e-15;
Mismatches 0;
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Klass MR,
SD;
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Kratochvil
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ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS

Matches Query Match Best Local

Similarity

100.0%; larity 100.0%; Conservative 0

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Score 175; I Pred. No. 1.8 ); Mismatches

175; DB 7; No. 1.8e-15;

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                                                  The present invention relates to human NC1, NC2 and NC3 proteins and coding sequences (ANG14340-ANG14345). The coding sequences are useful for detecting and screening proliferative insulin-producing cells as well as differentiation and proliferation of such cells and their precursors as analogous cells in treatment of e.g. PHHI and diseases due to differentiation/proliferation anormality, diseases of the nervous system and pancreas. The coding sequences are also useful as spontaneous proliferation models of pancreas beta-cells. The novel genes NC1, NC2 and NC3 were isolated from the pancreas of PHHI patients, which were used in testing for the detection of proliferative insulin-producing cells or pancreas beta-cells by Northern analysis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pamilial persistent hyperinsulinemic hypoglycemia of infancy (PHHI) patient-expressed genes for detecting and screening e.g. proliferatingulin-producing cells in treatment of PHHI.
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                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 2; 34pp; Japanese.
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Search completed: March 3, 2006, 13:35:23 Job time : 19.7075 secs Color Mond Sod Str.

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Copyright (c) 1993 - 2006 Biocceleration Ltd
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## ALIGNMENTS

T00636

hypothetical protein F21856\_2 - human (Species: Homo sapiens (man) (Species: Homo sapiens (man) (C;Species: Homo sapiens (man) (C;Species: Homo sapiens (man) (C;Date: 01-Feb-1999 #Bequence\_revision 01-Feb-1999 #text\_change 09-Jul-2004 (C;Accession: T00636 (R;Accession: T00636 (R;Accession: T00636 (R;Accession: July 1008) (R;Accession: July 1008

A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: 1-679 <LAN>

Cross-references: UNIPROT:Q8IVT2; UNIPARC:UPI0000745CD; EMBL:AC004030; NID:g2804590;

A; Reference number: Z14195 A; Accession: T00636

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R;anonymous, The European Union Arabidopsis Genome Sequencing Consortium, The Cold Sprir Nature 402, 769-777, 1999
A;Title: Sequence and analysis of chromosome 4 of the plant Arabidopsis thaliana.
A;Reference number: A85001; MUID:20083488; PMID:10617198
A;Accession: B85035
                                                                                                                                                                                                                                                                                                                                                                                      RESULT
B85035
                                                                                                                                                    A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-419 <STO>
                                                                                                                                                                                                                                                                                                                        hypothetical protein AT4g02760 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
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                                                                                          C;Genetics:
A;Gene: AT4g02760
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A;Introns: 594/1; 637/3; 650/3
                                                                            A; Map position: 4
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                                                                                                                                                                                                                                                                                                            C;Accession: B85035
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Best Local Similarity 100.0%;
Matches 35; Conservative C
                                                                                                                                  Cross-references: UNIPROT:Q9SY03; UNIPARC:UPI00000A6D56; GB:NC_001268; NID:g7269761; F
Matches
                  Query Match
Best Local Similarity
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12;
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Score 57; DB 2; Length 419; Pred. No. 7.5; indels
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Pred. No. 2.2e-15;
Mismatches 0;
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A; Nolecule type: DNA
A; Residues: 1-661 <JOW>
A; Residues: 1-661 <JOW>
A; Residues: 1-661 <JOW>
A; Cross-references: UNIPARC: UPI0000138F03; EMBL: X78898; NID: g600045; PID: g600068
R; Nash, R.S.; Futcher, A.B.
submitted to the EMBL Data Library, August 1993
submitted to the EMBL Data Library, August 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOI. Blochem. Parasitol. 52, 263-270, 1992
A;Title: A Babesia bovis 225-kilodalton protein located on the cytoplasmic side of A;Reference number: S37762; MUID:92319010; PMID:1377786
A;Accession: S37762
                                                                                                                                                                                                                                                               A;Cross-references: UNIPARC:UPI0000138F03; R;Coster, F.; Jonniaux, J.L.; Goffeau, A.; submitted to the Protein Sequence Database,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: UNIPROT:P34761; UNIPARC:UPI0000138F03; A;Note: the nucleotide sequence was submitted to the EMBL D R;Jonniaux, J.L.; Coster, F.; Purnelle, B.; Goffeau, A. submitted to the EMBL Data Library, April 1994 A;Description: A 21.7 kb DNA segment on the left arm of yea A;Reference number: S49850 A;Accession: S49872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Date: 27-Jan-1995 #sequence revision 16-Feb-1996 #text_change C;Accession: S50734; S49872; S56045; S63154 R;Jonniaux, J.L.; Coster, F.; Purnelle, B.; Goffeau, A. Yeast 10, 1639-1645, 1994 Part 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WHI3 protein - yeast (Saccharomyces cerevisiae) N;Alternate names: protein N1382; protein YNL19 C;Species: Saccharomyces cerevisiae
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A; Residues: 1-661 < COS>
                                                                                                                                                                                      A; Reference number: S63151
A; Accession: S63154
                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: DNA
A; Residues: 1-661 < NAS>
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A; Accession: S56045
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A; Residues: 1-574 < JAS>
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Accession: S37762
                                                                         Cross-references: UNIPARC:UPI0000138F03;
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Best Local Similarity 37.5%;
Matches 12; Conservative
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                                    Experimental source:
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; Pred. No. 11;
5; Mismatches
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                                                                         EMBL: 271473; NID: g1302194; PID: g1302195; MIPS
                                                                                                                                                                                                                                                                   EMBL:U01095; NID:g393076; PID:g393077
Purnelle, B.; Van Dyck, L.
, April 1996
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Data Library,
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April 1994
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probable membrane protein YMR012w - yea N;Alternate names: hypothetical proteir C;Species: Saccharomyces cerevisiae C;Date: 08-vul-1995 #sequence_revision C;Accession: S53043
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C;Superfamily: RNA-binding protein Rnp24p; ribonucleoprotein repeat homology
F;539-609/Domain: ribonucleoprotein repeat homology <RRM1>
                                                                                                                                                                                               A;Residues: 1-1277 <DEV>
A;Cross references: UNIPROT:Q03690;
A;Experimental source: Strain AB972
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barre Nature 413, 523-527, 2001
                                                                                                        A;Cross-references: SGD:S0004614; MIPS:YMR012w
A;Map position: 13R
C;Keywords: transmembrane protein
F;835-851/Domain: transmembrane #status predic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Title: Genome sequence of Yersinia pestis, the causati
A;Reference number: AB0001; MUID:21470413; PMID:11586360
A;Accession: AC0333
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A; Accession: $53043
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A;Molecule type: DNA
A;Residues: 1-679 <KUR>
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                                                                                                                                                                              A; Gene: SGD:CLU1
                                                                                                                                                                                                                                                                    A; Molecule type:
                                                                                                                                                                                                                                                                                                                          submitted to the EMBL Data Library,
                                                                                                                                                                                                                                                                                                                                           R;Devlin, K.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;Species: Yersinia pestis
;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
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hes 15; Conservative
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C;Paccession: S57348
C;Accession: S57348
C;Accession: S57348
R;Cavailles, V.; Dauvois, S.; L'Horset, F.; Lopez, G.; Hoare, S.; Kushner, F.J.; Falver, R;Cavailles, V.; Dauvois, S.; L'Horset, F.; Lopez, G.; Hoare, S.; Kushner, F.J.; Falver, RHO J. 14, 3741-3751, 1995
EMBO J. 14, 3741-3751, 1995
EMBO J. 14, 3741-3751, 1995
EMBO J. 14, 3741-3751, MUID:95369246; PMID:7641693
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C;Date: 28-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 09-Jul-2004
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A; Residues: 1-1158 <CAV>
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                                                                               R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, LOTY, S.; Olson, M.V.
Nature 406, 959-964, 2000
A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunist A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Accession: D83332
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                                                             A;Status: preliminary
                                                                                                                                                                                                                                                                                  hypothetical protein PA3313 [imported] - Pseudomonas aeruginosa (strain PAO1)
C;Species: Pseudomonas aeruginosa
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Best Local S
Matches 14
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ell 81, 769-780, 1995
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                                      Molecule type: DNA
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UNIPROT:Q9HYT1; UNIPARC:UPI00000C59AA; GB:AE004753; GB:AE004091;
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Pred. No.
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Pred. No. 5
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                                                                                                                               PA01, an opportunistic path
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                                             RESULT
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    myosin - Acetabularia cliftonii
C;Species: Acetabularia clifton
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RESULT 10
S27779
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                                                                                                                                                                                                                                                                                                                                                                                                                     probable ABC transport permease - Mycoplasma pneumoniae (strain
N;Alternate names: hypothetical protein F10_orf750
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submitted to the EMBL Data Library, March 1992
A;Description: Sequence of a Babesia bovis gen
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C;Species: Babesia bovis .
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                                                                                                                                                                                                                                                                          R;Himmelreich, R.; Hilbert, H.; Plagens, H.; Pirkl, E.; Li, B.C.; Herrmann, R. Nucleic Acids Res. 24, 4420-4449, 1996
A;Title: Complete sequence analysis of the genome of the bacterium Mycoplasma pneumoniae A;Reference number: S73327; MUID:97105885; PMID:8948633
                                                                                                                                                                                                                                                                                                                                                                C;Species: Mycoplasma pneumoniae
A;Variety: ATCC 29342
C;Date: 27-Feb-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C; Keywords: surface antigen
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                                                                                                                                       A;Genetic
                                                                                                                                                                                                          A; Molecule type: DNA
A; Residues: 1-750 < HIM>
                                                                                                                                                                                                                                       A;Status: preliminary; nucleic acid sequence not shown; translation not shown
                                                                                                                                                                                                                                                            A; Accession: S73829
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SPFPKEGDDENTKGDDNSSEKTDTVSVS
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5; Mismatches
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Gas-vesicle operon protein gvpH - Halobacterium salinarum plasmids pHH1 and C;Species: Halobacterium salinarum C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 31-Jan-2000 C;Accession: JQ1125; 815187 R;Jones, J.G.; Young, D.C.; DasSarma, S. Gene 102, 117-122, 1991 A;Reference number: JQ1122; MUID:91323716; PMID:1864501 A;Accession: JQ1122; MUID:91323716; PMID:1864501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 05-Oct-2004
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 05-Oct-2004
C;Accession: AB0088
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B. deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.; il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell, Nature 413, 523-527, 2001
  A;Note: |
R;Horne,
                                                                                                                                                                                                                                                                                                                                                                                 RESULT 14
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AB0088
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R;Vugrek, O.; Menzel, D.
submitted to GenBank, March 1997
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                                                                  A;Cross-references: UNIPARC:UPI000012BE2C; GB:M58557; NID:g150406; A;Experimental source: strain NRC-1, plasmid pNRC100
                                                                                                                A; Molecule type: DNA
A; Residues: 1-182 < JON>
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A;Residues: 1-546 <KUR>
A;Cross_references: UNIPROT:Q8ZI08; UNIPARC:UPI00000DCD2A; GB:AL590842; PIDN:CAC89565.1.
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A;Genetic co
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                                                A; Genetics:
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the source is designated as Halobacterium halobium, M.; Englert, C.; Wimmer, C.; Pfeifer, F.
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Pred. No. 40;
3; Mismatches
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Pred. No. 78;
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C;Accession: T08237

R;Ng, W.V.; Ciufo, S.A.; Smith, T.M.; Bumgarner, R.E.; Baskin, D.; Faust, J.; Hall, Genome Res. 8, 1131-1141, 1998
A;Title: Snapshot of a large dynamic replicon in a halophilic Archaeon: megaplasmid A;Reference number: Z16408; MUID:99063795; PMID:9847077
A;Accession: T08237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Genome: plasmid pHH1
C;Superfamily: Halobacterium gvpH
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A;Genome: pl
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A;Title: A DNA region of 9 kbp contains all genes necessary for gas A;Reference number: S15183; MUID:92065812; PMID:1956294
A;Accession: S15187
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N;Alternate names: hypothetical protein H0237
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                                                                                                                                  A;Genome: plasmid pNRC100
C;Superfamily: Halobacterium
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A;Experimental source: strain NRC-1
                                                                                                                                                                                                                                  A; Molecule type: DNA
A; Residues: 1-182 < NGW>
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and is derived by analysis of the total score distribution.
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carrinci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Glabs R.A.,
RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
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RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT and mouse cDNA sequences.",
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
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Eukaryota; Metazoa;
Mammalia; Eutheria;
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Name=C19orf21;
                                                                                                 EMBL; BC042125; AAH42125.1; -; mRNA.
EMBL; BC052236; AAH52336.1; -; mRNA.
PIR; T00636; T00636.
Ensembl; ENSG00000099812; Homo Bapiens.
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                                          Coiled coil.
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QB0T18 MOUSE
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Q8k383
Q528v0
Q528v0
Q5cxx8
Q8bti8
Q9w404
Q81w22
Q81dc1
Q84ddc1
Q84ddc1
Q84ddc2
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Match

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Q5RBH3;
NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

MEDLINE=22354683; PubMed=1246681; DOI=10.1038/nature01266;

Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,

Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.

Yagi K., Tomaru Y., Hasegawa Y., Nogani A., Schonbach C., Gojobori

Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,

Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,

Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins

Balake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins

Dalla B., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,

Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,

Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-SEP-2005 (Rel. 48, Created)
13-SEP-2005 (Rel. 48, Last sequence update)
13-SEP-2005 (Rel. 48, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Protein Cl9orf21 homolog.
Mus musculus (Mouse).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Murcidea; Muridae; Murinae; Mus.
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Protein C19orf21 homolog.
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Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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685 AA;
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Pred. No. 2e-12;
1; Mismatches
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RESULT 4
Q4QE28 LEIMA
ID Q4QE28 L
AC Q4QE28;
DT 13-SEP-2

Q4QE28 LEIMA PRELIMINARY; Q4QE28; 13-SEP-2005 (TrEMBLrel. 31,

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PRT;

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RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Mongoya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Magohima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA Vuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA Milming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA Hirozane-Kishikawa T., Konai J., Aizawa K., Arakawa T., Fukuda S.,
A Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
Yasunishi A., Yoshino M., Waterston R., Lander B.S., Rogers J.,
RA Niraye F. Hayashizayi Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Rubin G.M., Hong L.,
RA Hopkins R.F., Jordan R., Farmer A.A., Rubin G.M., Hsieh F.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Hopkins R.F., Joquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Schmerch A., Schein J.E., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                    Matches
                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Birney E., Hayashizaki Y.;
"Analysis of the mouse transcriptome based on 60,770 full-length CDNAs.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AK020266; BAB32049.1; -; mRNA.
EMBL; BC013508; AAH13508.1; -; mRNA.
Ensembl; ENSMUSG00000035852; Mus musculus.
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                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                   COLLED
                                                                                                                                                                                                                                                                                                                                                                                  Coiled coil.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mouse cDNA sequences.";
c. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
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                                                                                                                                                    28;
                                                                                                                                                                                           Similarity
ALFPEVFSPTP--DENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                                                                                                        648 AA;
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72281 MW;
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Pred. No. 3.3e-08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Peacock C.S., Murphy L., Ivens A.C., Berriman M., Blackwell J. Smith D., Collins M., Fosker N., Harris D., Oliver K., O'Neil Saunders D., Seeger K., Warren T., Rajandream M., and Barrell Submitted (JUN-2005) to the EMBL/GENBANK/DABJ databases.

EMBL, CT005257; CAU03461.1; -; Genomic_DNA.

Hypothetical protein.

SEQUENCE 746 AA; 83082 MW; 3A3CCD5AA6ABA639 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Leishmania major.
Eukaryota; Euglenozoa;
EURI_TaxID=5664;
                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847; Gloeckner G., Bichinger L., Szafranski K., Pachebat J.A., Bankler A.T., Dear P.H., Lehmann R., Baumgart C., Parra G., Abril J.F., Guigo R., Kumpf K., Tunggal B., Cox E., Quail M., Platzar M., Rosenthal A., Noegel A.A.; "Sequence and analysis of chromosome 2 of Dictyostelium discure 418:79-85(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lehmann R., Baumgart
Tunggal B., Cox E., (
Submitted (MAY-2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gloeckner G., Bichinger L., Gloeckner G., Baumgart C., Pa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dictyostelium discoideum (Slime mold).
Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hypothetical protein.
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01-OCT-2002 (TrEMBLrel.
01-PEB-2005 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QBMP25 DICDI PRELIMINARY;
QBMP25; Q8T170;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN-Friedlin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hypothetical protein. ORFNames=LmjF18.0140;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-SEP-2005
                                                                                                                                                                                                                  Submitted (MAR-2003) to the EMBL/GenBank/DDBJ EMBL; AC123513; AAM44371.1; -; Genomic_DNA. EMBL, AC117070; AAM09347.2; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN-AX4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=44689;
                                                                                                                                                                                                                                                                                                                  STRAIN-AX4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN-AX4
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                                                                                                                                                                               Hypothetical
SEQUENCE 54
                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE.
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                                                                                                                                                                                                                                                                                             Baumgart
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                                          2 LFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
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                                                                                      34.9%;
llarity 41.2%;
Conservative
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t C., Parra G., April J.F., Guigo R., Kumpf
Quail M.A., Platzer M., Rosenthal A., Noeg
                                                                                                                                                                               63517 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                36.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22,
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31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the EMBL/GenBank/DDBJ databases.
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                                                                                      Score 61; DB:
Pred. No. 37;
6; Mismatches
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Pred. No.
                                                                                                                                                                               7ED31B403D7874EB
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annotation update)
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22;
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  134
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                                                                                           14;
                                                                                                                                                                                                                                                                     databases
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                                                                                                                                  Length 545;
                                                                                                                                                                                 CRC64;
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., Quail M.A.,
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Noegel A.A.;
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RESULT 7

Q54VV1_DICDI
Q54VV1,
ID Q54VV1;
AC Q54VV1;
AC Q54VV1;
AC Q54VV1;
AC D54VV1;
DT 13-SEP-2005 (TrEMBLrel. 31,
DE Hypothetical protein.
GN CEVOSTE Lium discoideum (S
OC Eukaryota; Mycetozoa; Dicty
OX NCBI_TAXID-44689;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RC STRAIN-AXX;
RA Eichinger L., Pechebat J.A.
RA Sucgang R., Berriman M., So
RA Tunggal B., Kummerfeld S.,
RA Bankier A.T., Lehmann R.,
RA Bilcher K., Chen G., Saunde
RA Kerhornou A., Nie X., Hall
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 6
Q555M6;
ID Q555M6;
AC Q555M6;
DT 13-SEP-:
DT 
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RA Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F.,
RA Bankier A.T., Lehmann R., Hamlin N., Davies R., Gaudet P., Fey P.,
RA Bankier K., Chen G., Saunders D., Sodergren E., Davis P.,
RA Pilcher K., Chen G., Saunders D., Sodergren E., Davis P.,
RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
RA Kooper J., Haydock S., van Driessche N., Cronin A., Goodhead I.,
RA Muzny D., Mourier T., Pain A., Lu M., Harper D., Lindsay R.,
RA Muzny D., Mourier M., Pain A., Lu M., Harper D., Lindsay R.,
RA Hauser H., James K., Quiles M., Mohan M.B., Satto T., Buchrieser C.,
RA Mardroper A., Felder M., Thangavelu M., Johnson D., Knights A.,
RA Loulseged H., Mungall K., Oliver K., Price C., Quail M.A.,
RA Murushihara H., Hernandez J., Rabbinowitsch E., Steffen D., Sanders M.,
RA Mardroper A., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
RA Sugano S., White B., Walker D., Woodward J., Winckler T., Tanaka Y.,
RA Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
RA Williams J., Dear P.H., Noegel A.A., Barrell B., Kuspa A.,
The genome of the social amoeba Dictyostelium discoideum.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                    Sucgang R., Berriman M., Song J., Olsen R., Szafranski K., Xt Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero Bankier A.T., Lehmann R., Hamlin N., Davies R., Gaudet P., Fe Pilcher K., Chen Gan, Saunders D., Sodergran R., Parria Rerhornon B. Wi- " Saunders D., Sodergran R.
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Q555M6;
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                                                                                                                                                                                                                                                                                            Dictyostelium discoideum (Slime mold).
Bukaryota; Mycetozoa; Dictyosteliida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nature 0:0-0(2005).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAUTION: The sequence shown here is derived EMBL/GenBank/DDBJ whole genome shotgun (WGS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 preliminary data.
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5 (TrEMBLrel. 31,
5 (TrEMBLrel. 31,
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855 AA; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            34.9%;
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Dictyosteliida; |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                J.A.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Created)
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Pred. No. 62;
6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gloeckner G., Rajandream M.-A.,
g J., Olsen R., Szafranski K., X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E117ED7EB114AA3E CRC64;
, Sodergren E., L
jard C., Hemphil
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                                                                            Fey P.,
                                                                                                                                 Χu Q.,
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Sichinger L., Pachebat J.A., Gloeckner G., Rajandream M.-A.,
Sucgang R., Berriman M., Song J., Olsen R., Szafranski K., Xu Q.,
RA Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F.,
RA Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F.,
RA Hall N., Davies R., Gaudet P., Fey P.,
RA Hall N., Anjard C., Hemphill L., Bason N.,
RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
RA Kerhornou A., Nie X., van Driessche N., Cronin A., Goodhead I.,
RA Cooper J., Haydock S., van Driessche N., Cronin A., Goodhead I.,
RA Murny D., Mourier T., Pain A., Lu M., Harper D., Lindsay R.,
RA Mauser H., James K., Quiles M., Mohan M.B., Saito T., Buchrieser C.,
RA Mardroper A., Felder M., Thangavelu M., Johnson D., Knights A.,
RA Wardroper A., Felder M., Thangavelu M., Johnson D., Knights A.,
RA Urushihara H., Hernandez J., Sammonds M., Spiegler S., Tivey A.,
RA Ma J., Kohara Y., Sharp S., Simmonds M., Spiegler S., Tivey A.,
RA Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
RA Kohisholm R.L., Gibbs R., Loomis W.F., Platzer M., Käy R.R.,
The genome of the social amoeba Dictyostelium discoideum.";
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Cooper J., Haydock S., van Driessche N., Cronin A., Goodhead I.,
AM Muzny D., Mourier T., Pain A., Lu M., Harper D., Lindsay R.,
AM Hauser H., James K., Quiles M., Mohan M.B., Salto T., Buchrieser C.,
AM Wardroper A., Felder M., Thangavelu M., Johnson D., Knights A.,
Loulseged H., Mungall K., Oliver R., Price C., Quail M.A.,
Loulseged H., Mungall K., Oliver B., Steffen D., Sanders M.,
AM J., Kohara Y., Sharp S., Simmonds M., Spiegler S., Tivey A.,
AM J., Kohara Y., Sharp S., Simmonds M., Spiegler S., Tivey A.,
AM J., Kohara Y., Sharp S., Simmonds M., Spiegler S., Tivey A.,
AM J., Kohara Y., Sharp S., Simmonds M., Spiegler S., Tivey A.,
AM J., Kohara Y., Sharp S., Weinstock G., Rosenthal A., Cox E.C.,
AM J., Kohara Y., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
AM Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
AM Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
AM Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
AM Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
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AM Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
AM Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox E.C.,
AM Shaulsky G., Schleiche
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Best Local S
Matches 13
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13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
CHD gene family protein containing chromodomain, hel
DNA-binding domain.
NAME=DDB0220643; ONFNAMEs=DDB0220643;
Dictyostelium discoideum (Slime mold).
Eukaryota, Mycetozoa; Dictyosteliida; Dictyostelium
DNA-binding; Helicase.
                                                                                                                                                                                                      "The genome of the social amoeba Nature 0:0-0(2005).
-!- CAUTION: The sequence shown l
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Q54CF8;
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Hypothetical protein.
SEQUENCE 1201 AA; 136978 MW; DDE248A6414817
                                                                                  EMBL; AAFI01000274; EAL60858.1; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=AX4;
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Pred. No. 1.2e.
6; Mismatches
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                                                                                                                                                             genome
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        71AD73435CD666B8 CRC64;
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                                                                                                                                                                 shotgun
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                                                                                                                                                                     (WGS)
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QSBSF7 EME
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 16
Birren B., Nusbaum C., Abouelleil A., Allen N., Anderson S., Arachchi H.M., Barna N., Bastien V., Bloom T., Boguslavkiy L., Boukhgalter B., Butler J., Calvo S.E., Camarata J., Chang J., Boukhgalter B., Butler J., Cook A., Cooke P., Corum B., DeArellano Diaz J.S., Dodge S., Dooley K., Dorris L., Elkins T., Engels R., Erickson J., Faro S., Ferreira P., FitzGerald M., Gage D., Galagau Gardyna S., Gnerre S., Graham L., Grand-Pierre N., Hafez N., Hagopian D., Hagos B., Hall J., Horton L., Hulme W., Iliev I., Jaffe D., Johnson R., Jones C., Kamal M., Kamat A., Karatas A., Kells C., Landers T., Levine R., Lindblad-Toh K., Liu G., Lui A., Kalls C., Landers T., Levine R., Lindblad-Toh K., Liu G., Lui A., Kalls C., Madbitt R., MacLean C., Macdonald P., Major J., Manning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               V9 CRYHO
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Q5B5F7 EMENI PRELIMINARY;
Q5B5F7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Xu P., Widmer G., Wang Y., Ozaki L.S., Alves J.M., Serrano M.G.,
Puiu D., Manque P., Akiyoshi D., Mackey A.J., Pearson W.R., Dear P.H.,
Bankier A.T., Peterson D.L., Abrahamsen M.S., Kapur V., Tzipori S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cryptosporidium hominis.
Bukaryota; Alveolata; Apicomplexa;
Cryptosporidiidae; Cryptosporidium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RNA-binding protein. ORFNames=Chro.80392;
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10-MAY-2005 (TrEMBLrel.
10-MAY-2005 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hypothetical protein. ORFNames=AN4223.2;
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10-MAY-2005
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR007109; Brix. Pfam; PF04427; Brix; 1. PROSITE; PS50833; BRIX; 1.
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                                                                                                                                                                                                                                                                            STRAIN-FGSC
                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Fungi; Ascomycota;
Burotiales; Trichocomaceae; E
                                                                                                                                                                                                                                                                                                                                                                                                                         Aspergillus nidulans FGSC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nature 431:1107-1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Buck G.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=227321;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "The genome of Cryptosporidium hominis.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2253
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5 (TrEMBLrel. 30,
5 (TrEMBLrel. 30,
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Last annotation update)
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Emericella.
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5; Mismatches
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2; Mismatches
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Pred. No. 3
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RESULT 12
Q4WKQ0 ASPFU P
1D Q4WKQ0 ASPFU P
AC Q4WKQ0 ASPF2 P
13-SEP-2005 (1
DT 13-SEP-2005 (1
DT 13-SEP-2005 (1
DT 13-SEP-2015 (1
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Q6YY15
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Best Local S
Matches 14
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Best Local S
Matches 13
Hypothetical protein.
ORFNames=Afulg01700;
Aspergillus fundgatus Af293.
Eukaryota; Fungi; Ascomycota; P.
Eurotiales; Trichocomacese; mit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mihova T., Mlenga V., Murphy T., Naylor J., Nguyen C., Nicol R., Nielsen C.B., Norbu C., O'Connerl P., O'Neil D., Oliver J., Peterson K., Phunkhang P., Pierre N., Purcell S., Rachupka A., Ramasamy U., Raymond C., Retta R., Rise C., Rogov P., Rachupka A., Schauer S., Schupback R., Seaman S., Severy P., Smirnov S., Smith C., Spencer B., Stange-Thomann N., Stojanovic N., Stubbs M., Talamas J., Tesfaye S., Theodore J., Topham K., Travers M., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vandallev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wang S., Wilson B., Vo A., Wang S., Wilson B., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Vo A., Wang S., Wilson B., Vo A., Wang S., Wilson B., Vo A., Wang S., Wa
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Submitted (JAN-2004) to the EMBL/GenBank/DBJ of
EMBL, AACD01000068; EAA59322.1; -;
InterPro; IPR000074; ApoAl A4 E.
InterPro; IPR011992; EF-Hand Type.
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05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein OSJNBb0056122.34.
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S ORYSA
OGYY15 ORYSA PRELIMINARY;
OGYY15;
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Mihova T., Mlenga
Nielsen C.B., Norl
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Submitted (AUG-2002) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wu X., Wyman D., Young G., Zainoun J.,
                                                                                                                                                                                              13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AP005644; BAD17485.1; -; Genomic_DNA Gramene; Q6YY15; -
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Ehrhartoideae; Oryzeae; Oryza.
NCBI_TaxID=39947;
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Eukaryota; Viridiplantae; Streptophyta; E:
Spermatophyta; Magnoliophyta; Liliopaida;
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05-JUL-2004
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                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
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27,
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the EMBL/GenBank/DDBJ databases.
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Last sequence Last anno
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Pred. No. 3.2e
7; Mismatches
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4; Mismatches
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                                        mitosporic
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Pred. No.
                                           Pezizomycotina; Eurotiomycetes; itosporic Trichocomaceae; Asperg
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a; Poales; Poaceae;
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RESULT 13
Q5ZJA1_CHICK
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RA GATMAN M., Fedorova N., Fedorova N., Feldblyum T.V., Fischer R.,
RA GOLdman G.H., Gomi K., Griffith-Jones S., Gwilliam R., Haas B.,
RA GOLdman G.H., Gomi K., Griffith-Jones S., Gwilliam R., Haas B.,
RA Haas H., Harris D., Horiuchi H., Huang J., Humphrey S., Jimenez J.,
RA Kaller N., Khouri H., Kitamoto K., Kobayashi T., Kulkarni R.,
RA Kumagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,
RA Kamagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,
RA Majoros W.H., May G.S., Miller B.L., Mohamoud Y., Molina M., Monod M.,
RA Molyna I., Mulligan S., Miller B.L., Mohamoud Y., Molina M., Monod M.,
RA Molyna I., Mulligan S., Miller B.L., Mohamoud Y., Molina M., Monod M.,
RA Renauld H., Robson G.D., Rodriguez C., Pritchard B.L., Quail M.A.,
RA Renauld H., Robson G.D., Rodriguez de Cordoba S., Rodriguez-Pena J.M.,
RA Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,
RA Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,
RA Romoling Ferrero J.C., Saunders D., Vazquez de Aldana C.R., Weidman J.,
RA White O., Woodward J., Yu J.-H., Fraser C., Galagan J.E., Asai K.,
RA White O., Woodward J., Yu J.-H., Fraser C., Galagan J.E., Asai K.,
RA White O., Woodward J., Yu J.-H., Fraser C., Galagan J.E., Asai K.,
RA Wachida M., Hall N., Barrell B., Denning D.W.;
RT Aspergillus funigatus.";
RT Aspergillus funigatus.";
RT Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.
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Best Local S
Matches 12
  Query Match
Best Local
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NUCLEOTIDE SE
STRAIN=Af293;
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Bowyer P., Chen D., Collins M., Coulsen R., Davies R.,
                                                                                                                                                                      genefunction analysis.";
Genome Biol. 6:R6-R6(2005).
EMBL; AJ720533; CAG32192.1;
                                                                                                                                                                                                                                  STRAIN=CB; TISSUE=Bursa;
Caldwell R.B., Kierzek R.M., Arakawa H.
Fiedler P., Kutter S., Blagodatski A., Plachy J., Carninci P., Hayashizaki Y., "Full-length cDNAs from chicken bursal"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q5ZJA1_CHICK PRELIMINARY;
Q5ZJA1;
25-OCT-2004 (TrEMBLrel. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AAHF01000007; E
Hypothetical protein.
SEQUENCE 1044 AA;
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                                                                                                      InterPro; IPR000717; PCI. Pfam; PF01399; PCI; 1. SMART; SM00088; PINT; 1.
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25-OCT-2004
                                                                Hypothetical protein. SEQUENCE 275 AA; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gallus gallus (Chicken)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORFNames=RCJMB04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hypothetical
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Archosauria;
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42.9%;
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Pred.
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Pred. No. 1.4e+02;
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; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                             TIRNA
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                                                                  506BAE2AEEEOCFEE CRC64;
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    No ;
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DB
41;
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, Buerstedde J.M.,
                                                                                                                                                                                                                                    lymphocytes
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A Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F.,
A Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F.,
A Pilcher K., Chen G., Saunders D., Sodergren E., Davis P.,
A Pilcher K., Chen G., Saunders D., Sodergren E., Davis P.,
A Pilcher K., Chen G., Saunders D., Sodergren E., Davis P.,
A Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
A Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
A Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,
A Kerhornou A., Nie X., Hall N., Anjard E., Churcher C.,
A Kerhornou A., Nie X., Hall N., Anjard E., Churcher C.,
A Kerhornou A., Nie X., Van Driessche N., Cronin A., Goodhead I.,
A Muzny D., Mourier T., Pain A., Lu M., Harper D., Lindsay R.,
A Hauser H., James K., Quiles M., Mohan M.B., Saito T., Buchrieser C.,
A Wardropper A., Felder M., Thangavelu M., Johnson D., Knights A.,
A Loulseged H., Mungall K., Oliver K., Price C., Quail M.A.,
A Loulseged H., Mungall K., Oliver K., Price C., Quail M.A.,
A Loulseged H., Mungall K., Oliver K., Price C., Quail M.A.,
A Ma J., Kohara Y., Sharp S., Simmonds M., Spiegler S., Tivey A.,
A Sugano S., White B., Walker D., Woodward J., Winckler T., Tanaka Y.,
A Shaulsky G., Schleicher M., Weinstcock G., Rosenthal A., Cox E.C.,
A Millams J., Dear P.H., Noegel A.A., Barrell B., Kuspa A.;
The genome of the social amoeba Dictyostelium discoideum.",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
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'97 DICDI
Q54T97 DICDI |
Q54T97;
                                                                                                                                                                                                                                                       Q9VJ42 DROME
Q9VJ42;
01-MAY-2000 (
Neoptera; Endopterygota; Diptera; Brachycera; Ephydroidea; Drosophilidae; Drosophila.

NCBI TaxID=7227;

[1]
                                                                                                           Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexapoda;
                                                                                                                                                                          Name=CG10600; ORFNames=CG10600;
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ORFNames=DDB0204281;
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DROME
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1331 AA;
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g.J., Olsen R., Szafranski K., Xu Q.,
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RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Goaler. F.,
RA Amanatides P.G., Scherer S.E., Holt R.A., Evans C.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Ffeiffer B.D.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Ballew R.C., Rogers Y.-H.C., Blazel R.G., Champe M., Pfeiffer B.D.,
RA Abril J.F., Agbayani A., An H.-J., Andrews-Pfennkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bey-Rennkoch C., Baldwin D.,
RA Beson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
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RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
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RA Melson D.R., Nelson K.A., Saunders R.D.C., Scheeler F., Shen H.,
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RA Shens C., The College C., Wolfer S., Wang A.H., Wang X.,
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RA J., Jan M., Strong G., Zhou X., Smith H.O.,
RA S
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Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
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Ashburner M., Celni
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                                                        Lewis S.E.;
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1. 3:RESEARCH0084.1-RESEARCH0084.20(2002)
  review.";
                          of the Drosophila
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                             melanogaster
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                                euchromatic genome:
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RL Genome Biol. 3:RESEARCH0083.1-RESEARCH0083.22(2002).

RN UUCLEOTIDE SEQUENCE.

RD HUCLEOTIDE SEQUENCE.

RA HOSKINS R., Carlson J., Wan K., Pfeiffer B., Frise E., George R.,

RA HOSKINS R., Stapleton M., Pacleb J., Park S., Svirskas R., Smith E.,

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RT "Drosophila melanogaster release 4 sequence.";

RI Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.

RI Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.

RI FlyBase;

Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.

RI FlyBase;

RI FLACT: QSVU42; -.

DR Ensembl; CG10600; Drosophila melanogaster.

DR Ensembl; CG10600; Drosophila melanogaster.

DR FIYBase; FB9n0032717; CG10600.

SQ SEQUENCE 1377 AA; 150552 MM; 9FBC2436A98D6ABA CRC64;

QUETY Match

Best Local Similarity 46.4%; Pred. No. 2.6e+02;

Matches 13; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

Matches 13; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

OY 4 PEVFSPTPDENSDQNSRSSQ--ASGIT 29

Db 930 PAAGSSSPSQNGENNSNSSSQSGASGVS 957

Search completed: March 3, 2006, 13:26:12

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1: /cgn2_6/ptodata/1/1aa/5_COMB.pep:*

2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*

3: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:*

4: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*

5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*
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US-10-278-547-45
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US-09-051-219-6
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| 9.1 1596 2 US-09-538-092-887<br>8.9 252 2 US-09-248-796A-23055 Sequence 23055<br>8.6 410 2 US-09-248-796A-19654 Sequence 14299<br>8.6 548 2 US-09-398-395A-4 Sequence 19655<br>8.6 548 2 US-09-398-395A-6 Sequence 2, AI<br>8.6 548 2 US-09-398-395A-6 Sequence 6, AI<br>8.6 548 2 US-09-398-395A-10 Sequence 10, I<br>8.6 548 2 US-09-398-395A-10 Sequence 10, I<br>8.6 548 2 US-09-398-395A-10 Sequence 12, I<br>8.6 548 2 US-09-398-395A-10 Sequence 12, I<br>8.6 548 2 US-09-887-586A-2 Sequence 2, AI<br>8.6 548 2 US-09-887-586A-6 Sequence 2, AI<br>8.6 548 2 US-09-887-586A-6 Sequence 6, AI<br>8.6 548 2 US-09-887-586A-10 Sequence 12, I<br>8.6 548 2 US-09-887-586A-10 Sequence 12, I<br>8.6 548 2 US-09-887-586A-12 Sequence 12, I<br>8.6 548 2 US-09-887-586A-12 Sequence 12, I<br>8.6 548 2 US-09-887-586A-12 Sequence 2, AI<br>8.6 548 2 US-09-887-586A-12 Sequence 2, AI   | 50           | 50           | 50             | 50             | 50             | 50            | 50            | 50              | 50           | 50           | 50              | 50              | 50              | 50              | 50                | •            | •            | 51              |
| 1596 2 US-09-538-092-887 252 2 US-09-248-796A-23055 255 2 US-09-248-796A-14299 256 5 US-09-248-796A-14299 257 2 US-09-248-796A-19654 258 2 US-09-398-395A-2 258 2 US-09-398-395A-2 258 2 US-09-398-395A-3 258 2 US-09-398-395A-3 258 2 US-09-398-395A-10 258 2 US-09-398-395A-10 258 2 US-09-398-395A-10 258 2 US-09-398-395A-12 258 2 US-09-398-395A-12 258 2 US-09-887-586A-2 258 2 US-09-887-586A-3 258 2 US-09-887-586A-10 258 2 US-09-887-586A-12 | 28.6         | 28.6         | 28.6           | •              | •              | •             | •             | •               | •            | •            | •               | •               | •               | •               | 8                 | 8            | 8            | ۰               |
| US-09-538-092-887 US-09-248-796A-23055 US-09-248-796A-14299 Sequence 14299 US-09-248-796A-19654 US-09-398-395A-2 US-09-398-395A-6 US-09-398-395A-6 US-09-398-395A-10 US-09-398-395A-10 US-09-398-395A-10 US-09-398-395A-12 US-09-887-586A-2 US-09-887-586A-6 US-09-887-586A-6 US-09-887-586A-6 US-09-887-586A-6 US-09-887-586A-6 US-09-887-586A-10 US-09-887-586A-12 US-09-887-586A-12 US-09-887-586A-12 US-09-887-586A-12 US-09-887-586A-12 US-09-887-586A-12 US-09-887-586A-12 US-09-887-586A-12 US-09-887-586A-13 US-09-887-586A-14 US-09-887-586A-15 US-09-887-586A-15 US-09-887-586A-10 US-09-887-586A-10 US-09-887-586A-12 US-09-895-752-4   | 548          | 548          | 548            | 548            | 548            | 548           | 548           | 548             | 548          | 548          | 548             | 548             | 548             | 548             |                   | 505          | 252          | 59              |
| -09-538-092-887 -09-248-796A-23055 Sequence 23055 -09-248-796A-19654 Sequence 14299 Sequence 14299 -09-398-395A-2 Sequence 2, AI -09-398-395A-6 -09-398-395A-6 Sequence 6, AI -09-398-395A-10 Sequence 10, I -09-398-395A-12 Sequence 12, I -09-887-586A-2 Sequence 2, AI -09-887-586A-10 Sequence 10, I -09-887-586A-10 Sequence 10, I -09-887-586A-10 Sequence 2, AI -09-887-586A-10 Sequence 10, I -09-887-586A-10 Sequence 2, AI -09-887-586A-10 Sequence 10, I -09-887-586A-10 Sequence 2, AI -09-887-586A-12 Sequence 2, AI -09-895-752-4 Sequence 2, AI -09-895-752-4   | N            | N            | N              | N              | N              | 2             | N.            | N               | N            | N            | N               | N               | N               | N               | N                 | N            | N            | Ν               |
| equence 23055 equence 14299 equence 19655 equence 2, Ag equence 4, Ag equence 10, J equence 12, J equence 4, Ag equence 10, J equence 11, J equence 11, J equence 11, J equence 12, Ag equence 2, Ag equence 4, Ag equence 2, Ag equence 3, Ag equence 12, J equence 12, J equence 14, Ag equence 12, J equence 14, Ag equence 14, Ag equence 14, Ag equence 14, Ag  | -09-895-752- | -09-895-752- | -09-887-586A-J | -09-887-586A-1 | -09-887-586A-8 | -09-887-586A- | -09-887-586A- | -09-887-586A-   | -09-398-395A | -09-398-395A | -09-398-395A-   | -09-398-395A-   | -09-398-395A-   | -09-398-395A-   | -09-248-796A-1965 | -09-248-796A | -09-248-796A | -09-538-092-887 |
|  | 4            |              | equence 12     | equence 10     | equence 8,     | 0,            | e 4, Appi     | equence 2, Appl | e iz, App    | e IO, App    | equence 8, App1 | equence 6, Appi | equence 4, App1 | equence 2, Appl | e Lybb4,          | e 14299,     | equence 2305 | equence 887,    |

#### ALIGNMENTS

SEQUENCE CHARACTERISTICS:

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; MOLECULE TYPE:
US-09-050-516-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-278-547-45
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GENERAL INFORMATION:
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                                                                                                             TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: sir
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es 35; Conservative
                                                                                                                                                                                      NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE COLDITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
                                                     TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
:ULE TYPE: No. 6660834e
:NCE DESCRIPTION: SEQ ID NO: 45:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Abbott Park STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                            LENGTH: 35 amino acids
                                                                                                                                                                       TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application US/10278547
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INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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Pred. No. 8.8e-18;
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                                                                                                                                                                                                                            6065.US.P1
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                                                         US-09-050-516-47
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Best Local
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GENERAL INFORMATION:
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          Query Match 100.0%; Score 175; Best Local Similarity 100.0%; Pred. No. 8
                                                                                                                              INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
                                                                                                                                                                                          COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: STROUPE, STEPHI
TITLE OF INVENTION: REAGEI
TITLE OF INVENTION: TRACT
                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                      MOLECULE TYPE: No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
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                                                                                       STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                  TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
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Abbott Park
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6627414
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STROUPE, STEPHEN
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ROBERTS-RAPP, LISA
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KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MARK
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REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 175; DB 2;
100.0%; Pred. No. 8.8e-18;
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                                                                                                                                                                                                                                                                                                                  08/828,855
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            8.3e-17;
                          DB 2; Length 215;
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Indels
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Matches

Conservative

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ALFPEVFSPTFDENSDONSRSSSOASGITGSYSVS 35

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                                                                                                                                                          US-10-278-547-47
                                                                           Query Match
Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                               TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARB: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <unhowered</pre>
                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                        NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
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104 ALPPEVESPTPDENSDONSRSSSOASGITGSYSVS 138
                           ALPPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                          TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Abbott Park
                                                                                                                                                                                                                                     STRANDEDNESS: single
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                                                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              USA
                                                                           100.0%; Score 175; DB 2;
100.0%; Pred. No. 8.3e-17;
tive 0; Mismatches 0;
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                                                                                                                  Length 215;
                                                                               Indels
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                                                                               Gaps
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RESULT 5

RESULT 6 US-10-278-547-42

Sequence 42, Applicati Patent No. 6660834 GENERAL INFORMATION:

Application US/10278547

APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE

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US-09-050-516-42
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                                                                                                                              ; TOPOLOGY: linear
; MOLECULE TYPE: No. 6627414e
US-09-050-516-42
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Patent No.
                                                                                               Query Match
                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                    NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
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                                                             / Match 100.0%; Score 175; DB 2;
Local Similarity 100.0%; Pred. No. 3.4e-16;
Les 35; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 60064-3500
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                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
                                                                                                                                                                                                                                                                                       TELEFAX:
                                                                                                                                                                                                                     LENGTH:
568 ALPPEVESPTPDENSDONSRSSSOASGITGSYSVS 602
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o. 6627414
                             1 ALFPEVFSPTPDENSDONSRSSSOASGITGSYSVS
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RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                       847/938-2623
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COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
CONDON TITTAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRANADOS,
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                                                                                                                                                                                   single
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, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JULIAN
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                                                                                                Length 679;
                                                                  Indels
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                                                                                                                                            Sequence 422, Application US/09487558B Patent No. 6949356 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                          APPLICANT: Busby, Robert APPLICANT: Cali, Brian
                                                                        APPLICANT:
                                                       APPLICANT:
   APPLICANT:
                  APPLICANT:
                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/050,516

PILING DATE: «Unknown»

APPLICATION NUMBER: 08/828,855

PILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                             895
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                                                                                                                                                                                                                                                                                                                                                  l Similarity
35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                     Hecht, Peter
Holtzman, Doug
Madden, Kevin
                                                                                                                                                                                                                                                                             ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 679 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 847/938-2623
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                 Maxon, Mary
Milne, Todd
                                                   Madden,
                                                                                                        Cali, Brian
                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 175; DB 2;
Larity 100.0%; Pred. No. 3.4e-16;
Conservative 0; Mismatches 0;
6949356man, Thea
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JULIAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6065.US.P1
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                                                                                                                                                                                                                                                                                                                                                                                      Length 679;
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US-09-949-016-11047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Saccharomyces cerevisiae US-09-487-558B-422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Summers, Eric
TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
FILE REFERENCE: 109272.130
CURRENT APPLICATION UNMBER: US/09/487,558B
CURRENT FILING DATE: 2000-01-19
PRIOR APPLICATION NUMBER: US 60/487,558
PRAIOR APPLICATION NUMBER: US 60/487,558
ONUMBER OF SEQ ID NOS: 446
SOFTWARE: Patentin version 3.0
SEQ ID NO 422
TENDOMER OF SEQ ID NOS: 446
                                                                 Sequence 15380, Application US/09248796A
PATENT NO. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 207012
SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 11047
LENGTH: 1163
TYPE: PRT
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Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                 Matches
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APPLICANT:
APPLICANT:
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
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nes 15; Conserv
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Silva, Jeff
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Pred. No. 14;
9; Mismatches
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Pred. No. 63;
                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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SEQ ID NO 15380

ENGTH: 642

NUMBER OF SEQ ID NOS:

APPLICATION NUMBER: US 60/074,725 FILING DATE: 1998-02-13 APPLICATION NUMBER: US 60/096,409 FILING DATE: 1998-08-13

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: equine rhinovirus 1 US-09-091-219-6
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                                                                                                                                                                                                                                                                                                       US-09-660-541-6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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           TITLE OF INVENTION: EQUINE RHINOVIRUS 1 PROTEINS
FILE REFERENCE: 040268/0151
CURRENT APPLICATION NUMBER: US/09/660,541
CURRENT FILING DATE: 2000-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/091,219
PRIOR FILING DATE: EARLIER FILING DATE: 1998-10-05
PRIOR FILING DATE: EARLIER APPLICATION NUMBER: AU PN7201
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: AU PN7201
PRIOR FILING DATE: EARLIER PILING DATE: 1995-12-18
NUMBER OF SEQ ID NOS: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: EQUINE RHINOVIRUS 1 PROTEINS FILE REFERENCE: 040268/0151 CURRENT APPLICATION NUMBER: US/09/091,219 CURRENT FILING DATE: 1998-10-05 EARLIER APPLICATION NUMBER: PCT/AU96/00815 EARLIER FILING DATE: 1996-12-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: STUDDERT, Michael J. APPLICANT: CRABB, Brendan S. APPLICANT: FENG, Li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EARLIER APPLICATION NUMBER: AU PN7201
EARLIER FILING DATE: 1995-12-18
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                        APPLICANT: STUDDERT, Michael J. APPLICANT: CRABB, Brendan S.
                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 80
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                                                                  VISPEGQGSNTSSSTSSSQSSGLGGWFS 69
                                                                                                                                                                                CRABB, b.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 53; DB 2; Pred. No. 3.7;
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RESULT 12
US-09-252-991A-17733
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; ORGANISM: equine rhinovirus 1
US-09-660-541-6
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                                                        US-09-921-099A-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 17733
LENGTH: 362
TYPE: PRT
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Best Local Similarity
Matches 12; Conserv
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                                                                                                   NUMBER OF SEQ ID NOS: 21
SOFTWARE: PatentIn version 3.0
SEQ ID NO 17
LENGTH: 437
                                                                                                                                                                                                                                                                                                  Sequence 17, Application US/09921099A Patent No. 6602707
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local
Matches 1
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Matches
                            Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/921,099A CURRENT FILING DATE: 2001-08-01
                                                                                                                                                                                            APPLICANT: Merkins, Louise
APPLICANT: Bennett, Robert
APPLICANT: Seiss, Donald
TITLE OF INVENTION: Mammalian DNA Binding Membrane-Associated Protein-encoding
FILE REFERENCE: 00-617-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE:
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NAME/KEY: UNSURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Pseudomonas
                                                                                        TYPE: PRT
                                                                        ORGANISM: Drosophila melanogaster
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            Local
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42 VISPEGQGSNTSSSTSSSQSSGLGGWFS
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l Similarity
11; Conserv
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NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
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Pred. No. 3.7;
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Pred. No. 24;
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                               DB 2;
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                                 Length 437;
   Indels
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: STUDDERT, Michael J.
APPLICANT: CRABB, Brendan S.
APPLICANT: FENG, Li
TITLE OF INVENTION: EQUINE RHINOVIRUS 1 PROTEINS
FILE REFERENCE: 040268/0151
CURRENT APPLICATION NUMBER: US/09/660,541
CURRENT FILING DATE: 2000-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/091,219
PRIOR PILING DATE: EARLIER FILING DATE: 1998-10-05
PRIOR FILING DATE: EARLIER APPLICATION NUMBER: EARLIER FILING DATE: 1995-12-18
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 25
LENGTH: 2232
TYPE: PRT
ORGANISM: equine rhinovirus 1
US-09-660-541-25
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APPLICANT: CRABB, Brendan S.

APPLICANT: FENG, Li

TITLE OF INVENTION: EQUINE RHINOVIRUS 1 PROTEINS
FILE REFERENCE: 040268/0151
CURRENT APPLICATION NUMBER: US/09/091,219
CURRENT FILING DATE: 1998-10-05
EARLIER APPLICATION NUMBER: PCT/AU96/00815
EARLIER APPLICATION NUMBER: PCT/AU96/00815
EARLIER FILING DATE: 1995-12-18
EARLIER FILING DATE: 1995-12-18
NUMBER OF SEO ID NOS: 25
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 25
LENGTH: 2232
TYPE: PRT
ORGANISM: equine rhinovirus 1
US-09-091-219-25
Search completed: March Job time: 4.86054 secs
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US-09-091-219-25
; Sequence 25, Application US/09091219
; Patent No. 6171592
; GENERAL INFORMATION:
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US-09-660-541-25
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                                                                                                249 VISPEGQGSNTSSSTSSSQSSGLGGWFS 276
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Perfect score:
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
  protein search, using sw model
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| ('Ggn2_6')ptodata/I/pubpaa/USOR_PUBCOMB.pep:*
| ('Ggn2_6')ptodata/I/pubpaa/USOS_PUBCOMB.pep:*
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| ('Ggn2_6')ptodata/I/pubpaa/USIOS_PUBCOMB.pep:*
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3 US-09-050-516-47
4 US-10-278-547-47
4 US-10-646-873-47
5 US-10-646-873-42
5 US-10-646-873-42
6 US-10-425-114-3773-4
6 US-10-425-114-3778-4
7 US-10-425-114-4532-4
8 US-10-425-114-4532-4
9 US-10-437-963-12788-4
9 US-10-437-963-12788-4
9 US-10-437-963-12788-4
9 US-10-437-963-12788-4
9 US-10-437-963-18708-2
9 US-10-108-2608-2792-4
9 US-10-108-2608-2792-4
9 US-10-108-2608-2792-4
9 US-10-282-1228-78228-2
9 US-10-437-963-203995-2
9 US-10-437-963-203995-2
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US-10-278-547-45
US-10-646-873-45
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                                                                   Sequence
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                                          Sequence
    127884,
452, App
453, App
187082,
187082,
12740, Ap
27422, Ap
27425, Ap
27425, Ap
27428, Ap
27828, Ap
2782
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45, Appl
45, Appl
4761, Ap
477, Appl
47, Appl
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US-09-050-516-45
; Sequence 45, Application US/09050516
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| 4.<br>U             | d d           | 44                | 4                 | 4                    | _                  |                      |                      |                      |                     |                      |                     |                      |                     |                     |                    |                  |                      |          |
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|                     |               |                   | _                 | N                    | ï.                 | ö                    | 39                   | 38                   | 37                  | 36                   | 35                  | 34                   | 33                  | 32                  | 31                 | 30.              | 9                    | 28       |
| 52                  |               | л                 | 52                | 52                   | 52                 | 52                   | 52                   | 52                   | 52                  | 52                   | 52                  | 52                   | 52                  | 52.5                | 53                 | 53               | 53                   | 53.5     |
| 29.7                |               | 29.7              | 29.7              | 29.7                 | 29.7               | 29.7                 | 29.7                 | 29.7                 | 29.7                | 29.7                 | 29.7                | 29.7                 | 29.7                | 30.0                | 30.3               | 30.3             | 30.3                 | 30.6     |
| 298                 |               | 297               | 275               | 252                  | 250                | 233                  | 185                  | 173                  | 163                 | 109                  | 93                  | 62                   | 46                  | 213                 | 448                | 437              | 300                  | 701      |
| U                   |               | Jī                | u                 | 4                    | w                  | 4,                   | 4                    | 4                    | 4                   | 4                    | 4,                  | 4                    | U                   | δ                   | σ                  | տ                | 4,                   | 4.       |
| US-10-450-/63-53184 | 10 10 110 110 | US-10-220-335-639 | US-10-220-335-295 | US-10-437-963-141437 | US-09-978-360A-473 | US-10-425-115-204469 | US-10-424-599-242244 | US-10-437-963-115260 | US-10-425-114-71060 | US-10-425-115-332428 | US-10-767-701-32997 | US-10-424-599-254465 | US-10-450-763-53181 | US-11-097-143-35148 | US-11-097-143-2595 | US-10-619-992-17 | US-10-437-963-150328 | N        |
|                     |               |                   |                   |                      |                    |                      |                      |                      |                     |                      |                     |                      |                     |                     |                    |                  |                      |          |
| seductice           | •             | Sequence          | Sequence:         | Sequence             | Sequence           | Sequence             | Sequence             | Sequence             | Sequence            | Sequence             |                     |                      |                     |                     |                    |                  | æ                    |          |
| 0,000               | 2104 7        | 639, App          | .295, App         | 141437,              | 473, App           | 204469,              | 242244,              | 115260,              | 71060, A            | ۳,                   | 32991, A            | 254465,              | DULBL, A            | 35148, A            | 2595, AD           | 2                |                      | 62129, A |

## ALIGNMENTS

| 2X_X_X_XXXXXXXXXXXXXXXXXXXXXXXXXXXX | RUSSELL, JOHN INTERPRITED REAGING INVENTION: FOR I INVENTION: FOR I INVENTION: TRACTION TO ADDOCT ADDOC | GENERAL INFORMATION: GENERAL INFORMATION: APPLICANT: BILLING-MEDEL, PATRICIA APPLICANT: COLHEN, MAURICE APPLICANT: COLHITTS, TRACEY L. APPLICANT: COLPITTS, TRACEY L. APPLICANT: FRIEDMAN, PAULA N. APPLICANT: GORDON, JULIAN APPLICANT: GORDON, JULIAN APPLICANT: GORDON, JULIAN APPLICANT: HAYDEN, MARK APPLICANT: HAYDEN, MARK APPLICANT: KRATOCHVIL, JON D. APPLICANT: KRATOCHVIL, JON D. APPLICANT: ROBERTS-RAPP, LISA |  |
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SEQUENCE CHARACTERISTICS:

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RESULT 2
US-10-278-547-45
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Publication No. US2003-
GENERAL INFORMATION:
APPLICANT: BILL
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                                                                   INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                          PRIOR APPLICATION DATA:

APPLICATION UNMBER: US/09/050,516

PILING DATE: «Unknown»

APPLICATION NUMBER: 08/828,855

PILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 6065.US.P1

TELEPHONE: 847/935-1729

TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
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TOPOLOGY: linear MOLECULE TYPE: No. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 45:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
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                                                       STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 60064-3500
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                                                                                                                                                                             TELEFAX: 847/938-2623
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lo. US20030082619A1
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3: No. US20010010904Ale
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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Pred. No. 2.5e-16;
                                                                                                                                                                                                                                         6065.US.P1
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TOPOLOGY: linear ; MOLECULE TYPE: No. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 45: US-10-646-873-45
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Query Match 100.0%; Score 175; DB 4; Best Local Similarity 100.0%; Pred. No. 2.5e-16; Matches 35; Conservative 0; Mismatches 0;
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                                                                                                                                                                                                                               TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELEPHONE: 847/935-1729
TELEPHONE: 847/935-1729
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IEM Compatible
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
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HODGES, STEVEN C.
KLASS, MICHAEL R.
KRAFOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: BILLING-MEDEL, PATRICIA
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35; Conserv
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                                                                                                                                                               LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Abbott Park
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GRANADOS, EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 175; DB 4; 100.0%; Pred. No. 2.5e-16; tive 0; Mismatches 0;
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                                           Length 35;
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Best Local
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SENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
FILE REFERENCE: PA005P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 8564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR FILING DATE: 1999-09-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-050-516-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/163,280
                                                                                                                                                                                                                                                                                                                                                                                                                                              guence 47,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Homo mapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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                           CITY: Abbott Park
                                                               DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                              No.
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                                                                                                                                                                                                                                                                                                                                                                                                                          7, Application US/09050516
US20010010904A1
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                                                100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                            COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                    ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
                                                                                                                                                                                                                                                                                                                                                                    BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                   GRANADOS,
                                                               Abbott Laboratories
                                                                                   ADDRESS:
                                                                                                                                                                                                                        S, STEVEN C.
MICHAEL R.
OCHVIL, JON D.
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                                                                                                                     TRACT
                                                                                                                                                                         STEPHEN D.
                                                                                                                                    REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                 EDWARD N.
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Pred. No. 1.6e-15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FOR MEDIUM TYPE: Diske COMPUTER: IBM Comp OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS
LENGTH: 215 amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/E
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/09/050,516
                                 OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: REAGENTS AND METHODS USEFUL-
FOR DETECTING DISEASES OF T
                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    104 ALFPEVFSPTPDENSDONSRSSSOASGITGSYSVS 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         35;
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READABLE FORM:
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                                                                                     COMPUTER: IBM Compatible
                                                                                                                                           ZIP: 60064-3500
                                                                                                                                                                                          CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/10278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    215 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US20030082619A1
CATION NUMBER: US/10/278,547
G DATE: 23-Oct-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
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                                                                                                                                                                                                                                                                                                                                          HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 No. US20010010904Ale
                                                                                                                                                                                                                                                                                                                                                                                                                  GRANADOS,
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                                                                                                                                                            USA
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                                                                                                                                                                                                                                                                                                                                                                               STEVEN C.
                                                                                                                                                                                                                                                                                       TRACT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 175; DB 3; Pred. No. 2.1e-15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 215;
                                                                                                                                                                                                                                                                                                          THE GASTROINTESTINAL
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Gaps

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US-10-646-873-47
; Sequence 47, Application; Publication No. US2004; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                              COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
PILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BILLING-MEDEL, PATRICIA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 ALFPEVFSPTPDENSDONSRSSSOASGITGSYSVS 35
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                       CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/10646873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GRANADOS, EL...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6065.US.P1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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; TOPOLOGY: linear; MOLECULE TYPE: NO. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 47: US-10-646-873-47
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION: APPLICANT: BILLIN
                                                                                                                                                                                                                                                   STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                 CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828
APPLICATION NUMBER: 08/828
FILING DATE: 31-MAR-1997
ATTORNBY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: ITTILE OF INVENTION: ITTILE OF INVENTION: THE TITLE OF SEQUENCES:
                                                                                                                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
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                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                    COMPUTER: IBM Cor
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                   CITY: Abbott Park
                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 215 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/09050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                  100 Abbott
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RUSSELL, JOHN C.
STROUPE, STEPHEN D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HODGES, STEVEN C. KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COHEN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                       REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
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                                                                                                                                                                                                                                                                                                                                                                                                                        49
                                                                                                       08/828,855
                                                                                                                                                                                                                                                                                                                                                                   Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>.</u>
                  6065.US.P1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 215;
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TELEPHONE:

847/935-1729

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Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO:
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: No. US20010010904Ale
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LENGTH: 679 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVII, JON D.
KRATOCHVIII, JON D.
                                                                                                                                                    NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REPERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/09/050,516 FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/10278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
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                                                                                                                       ELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RANADOS, EDWARD N.
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Pred. No. 8.1e-15;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 679;
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TOPOLOGY: linear

MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-646-873-42
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US-10-646-873-42
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Best Local Similarity 100.0%;
Matches 35; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 42, Application US/10646873 Publication No. US20040043406A1
                                                                                                                                                                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION CURROWN>
PRIOR APPLICATION NUMBER: US/09/050,516
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 3666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. US20030082619Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  568 ALFPEVESPTPDENSDONSRSSSOASGITGSYSVS 602
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                                                                                                                     LENGTH: 679 amino acids TYPE: amino acid
                                                                                                                                                                                                                                   TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                          TELEPHONE: 847/935-1729
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Pred. No. 8.1e-15;
); Mismatches 0;
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                                                                                 Query Match
Best Local S
Matches 11
                                                                                                                                                       TYPE: PRT
ORGANISM: Glycine max
FEATURE:
FEATURE:
OTHER INFORMATION: Clone ID: 701139073_FLI.pep
5-10-425-114-37734
                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 37734
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SEQ ID NO 219343
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Best Local Similarity 47.8%;
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Publication No. US20040034888A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(5323)B CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
                                                                                                                                                                                                                                                                                                                                 APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E
APPLICANT: Tabaska, Jack E
APPLICANT: Tabaska, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILB REFERENCE: 38-21(53313)B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Liu, Jingdong APPLICANT: Zhou, Yihua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 300
TYPE: PRT
ORGANISM: Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE: OTHER INFORMATION: Clone ID: PAT_MRT3847_40092C.1.pep
                                                                                                                                                                                                                                              ENGTH:
                                                                                                   Local Similarity
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              135
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              PHPDHNNNSNSHSSESSSLTAA 157
                                                PTPDENSDQNSRSSSQASGITGS 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zhou Yihua
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                                                                                   Conservative
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                                                                                                   36.0%;
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                                                                                   Score 63; DB Pred. No. 5; 6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 175; DB 4;
Pred. No. 8.1e-15;
D; Mismatches 0;
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                                                                                                                        DB 4;
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                                                                                                                    Length 329;
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                                                                                    Indels
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RESULT 13
US-11-097-143-42681
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PRIOR APPLICATION NUMBER: 60/160,191
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR PILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR APPLICATION NUMBER: 60/191,637
PRIOR PILING DATE: 2000-02-24
PRIOR PILING DATE: 2000-03-23
PRIOR FILING DATE: 2000-03-23
                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: La ROBA, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yingwei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-437-963-127884
                                             APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID MOS: 204966
SEQ ID NO 127884
LENGTH: 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 42681, Application US/11097143 Publication No. US20050208558A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 42681
LENGTH: 1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 127884, Application US/10437963 Publication No. US20040123343A1
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Venter, J. Craig
APPLICANT: et al.
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
TITLE OF INVENTION: DROSOPHILA GENES.
FILE REFERENCE: CL000728
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CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: DROSOPHILA
OTHER INFORMATION: Clone ID: PAT_MRT4530_30291C.1.pep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4 PEVFSPTPDENSDQNSRSSSQ--ASGIT 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  l Similarity
13; Conserv
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Wei
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                                                                                                                                                                                                                                                                                                                                             Boukharov, Andrey A.
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Pred. No. 1.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1406;
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APPLICANT: Royer, John
APPLICANT: Salama, Sofie
APPLICANT: Salama, Sofie
APPLICANT: Sherman, Amir
APPLICANT: Silva, Jeff
APPLICANT: Summere, Eric
TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
FILE REFERENCE: 109272.147
CURRENT APPLICATION NUMBER: US/09/801,368
CURRENT APPLICATION NUMBER: US/09/801,368
CURRENT FILING DATE: 2001-03-07
PRIOR APPLICATION NUMBER: US 99/487,558
PRIOR FILING DATE: 1999-10-19
PRIOR FILING DATE: 1999-10-20
NUMBER OF SEQ ID NOS: 440
SOPTWARE: Patentin version 3.0
SEQ ID NO 422
LENGTH: 661
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
US-09-801-368-422
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US-09-801-368-422
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Search completed: March 3, 2006, 14:18:10 Job time: 15.3741 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Busby, Robert
APPLICANT: Cali, Brian
APPLICANT: Hecht, Peter
APPLICANT: Holtzman, Doug
APPLICANT: Madden, Kevin
APPLICANT: Madden, Kevin
APPLICANT: Maxon, Mary
APPLICANT: Mine, Todd
APPLICANT: No. US2020128250Alman, Thea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 32.6%; Score 57; DB 4; Length 285; Best Local Similarity 45.8%; Pred. No. 28; Matches 11; Conservative 4; Mismatches 9; Indels
                                                                                                                                                                                       Query Match 32.6%; Score 57; DB 3; Length 661; Best Local Similarity 34.1%; Pred. No. 74; Matches 15; Conservative 9; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 422, Application US/09801368 Patent No. US20020128250A1
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                                                                                          7 FSPTPDENSDQNSRSSSQASGITG 30
                                                                                                                                      2 LFPEVFSPTPDE-----NSDQNSRSSQASGITGSYSVS 35
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Maximum DB
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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seq length: 2000000000
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Gapop 10.0 , Gapext 0.5
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Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd
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                                                                                                                                                                                                                                                                                                                                                                                            Length
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                                                                                   US-09-978-360A-473
US-11-087-099-1352
US-11-087-099-13259
US-11-091-285-872
US-11-072-512-2709
US-10-995-561-612
US-11-130-206-6
US-10-995-561-611
US-11-130-206-4
US-11-130-206-2
US-10-995-561-615
US-11-130-206-2
US-10-995-561-618
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                                             -087-099-9245
                             -131-826A-10
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420.009 Million cell updates/sec
                                       Sequence 6, Appli
Sequence 473, App
Sequence 3229, Ap
Sequence 872, App
Sequence 612, App
Sequence 612, App
Sequence 614, App
Sequence 614, App
Sequence 614, App
Sequence 610, App
Sequence 611, App
Sequence 610, App
Sequence 617, App
Sequence 617, App
Sequence 618, App
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APPLICANT: Czech, Michael P.
APPLICANT: Powelka, Aimee
APPLICANT: Guilherme, Addison L.
APPLICANT: 'Cherniack, Andrew D.
TITLE OF INVENTION: RIP140 REGULATION OF DIABETES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 6, Application US/11075646 Publication No. US20050261223A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 17738-009001
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| 45                 | 44               | 43                 | 42                 | 41                 | 40               | 39                | 38                | 37              | 36              | ა<br>5          | 34                | <b>3</b> 3         | 32                 | <u>u</u>            | 30                | 29                | 28                 | 27                | 26                |
|--------------------|------------------|--------------------|--------------------|--------------------|------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|-------------------|-------------------|
| 45.5               | 45.5             | 45.5               | 45.5               | 45.5               | 46               | 46                | 46.5              | 46.5            | 47              | 47              | 47                | 47                 | 47                 | 47                  | 47                | 47                | 47                 | 47.5              | 48                |
| 26.0               | 26.0             | 26.0               | 26.0               | 26.0               | 26.3             | 26.3              | 26.6              | 26.6            | 26.9            | 26.9            | 26.9              | 26.9               | 26.9               | 26.9                | 26.9              | 26.9              | 26.9               | 27.1              | 27.4              |
| 880                | 769              | 588                | 581                | 421                | 7102             | 467               | 964               | 159             | 1717            | 1717            | 1045              | 869                | 698                | 646                 | 380               | 296               | 133                | 1161              | 877               |
| 7                  | 7                | 7                  | 7                  | 7                  | 7                | σ                 | 7                 | 7               | 7               | 7               | 7                 | 7                  | 7                  | 7                   | 7                 | σ                 | 9                  | 7                 | σ                 |
| US-11-072-512-2834 | US-11-188-743-15 | US-11-072-512-3053 | US-11-072-512-2804 | US-11-087-099-6078 | US-11-143-980-48 | US-10-517-939-304 | US-11-089-551A-30 | US-11-038-676-4 | US-11-193-715-2 | US-11-192-967-2 | US-11-055-822-100 | US-11-087-099-9341 | US-11-087-099-8952 | US-11-087-099-10725 | US-11-024-959-339 | US-10-714-887-226 | US-10-793-626-1924 | US-11-075-646-8   | US-10-485-517-200 |
| Sequence 2834, Ap  |                  | 305                |                    | Sequence 60/8, Ap  | 400              |                   | 30,               | 4.              | 2               | ٧.              | , 5               |                    | æ                  | Sequence 10725, A   |                   |                   |                    | Sequence 8, Appli | Sequence 200, App |
|                    |                  |                    |                    |                    |                  |                   |                   |                 |                 |                 |                   |                    |                    |                     |                   |                   |                    |                   |                   |

# ALIGNMENTS

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US-11-075-646-6
                                                                                                                                                                                                                                                   US-09-978-360A-473
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
                                                                                                                                                                                                           Sequence 473, Application US/09978360A Publication No. US20060009633A9
                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local &
                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                          Matches
APPLICANT: Edwards, Jean-Baptiste Dumas Milne
APPLICANT: Duclert, Aymeric
APPLICANT: Bougueleret, Lydie
APPLICANT: Bougueleret, Lydie
APPLICANT: Jobert, Severin
APPLICANT: Clusel, Catherine
TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
PILE REFERENCE: 56.US4.CIP
CURRENT FELICATION NUMBER: US/09/978,360A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: US 60/066,677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/550,677 PRIOR FILING DATE: 2004-03-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT FILING DATE: 2005-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 1158
                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                              403 SIFEESSTPTTIDEYSDNNPSFTDDSSGDESSYS
                                                                                                                                                                                                                                                                                                                                                                    1 ALFPEVFSPTP-DENSDONSRSSSQASGITGSYS
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Pred. No. 15
                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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APPLICATION NUMBER: US 60/069,957

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US-11-054-515-3229
; Sequence 3229, Application US/11054515
; Publication No. US20050255532A1
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US-11-087-099-1355
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                                                               RESULT 4
                                                                                                                                                                                                                                                                           ; SEQ ID NO 1355
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Colletotrichum gloeosporioides f.
US-11-087-099-1355
                                                                                                                                                                                                                                                                                                                                                                   Sequence 1355, Application US/11087099
Publication No. US20060041961A1.
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement FILE REFERENCE: 38-21(5350)B EP CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 810 SOFTWARE: Patent.pm SEQ ID NO 473
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TYPE: PRT
ORGANISM: Homo mapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -85..-1
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OR FILING DATE: 1998-08-10
OR APPLICATION NUMBER: US 60/099,273
OR FILING DATE: -09-04
OR APPLICATION NUMBER: US 09/191,997
OR FILING DATE: 1998-11-13
OR APPLICATION NUMBER: US 09/215,435
OR APPLICATION NUMBER: US 09/215,435
OR APPLICATION NUMBER: PCT/IB98/02122
OR FILING DATE: 1998-12-17
OR APPLICATION NUMBER: PCT/IB98/02122
OR FILING DATE: 1998-12-17
                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 29.7%;
Local Similarity 33.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1998-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PILING DATE: 1997-12-17
APPLICATION NUMBER: US 60/074,121
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                                                                                                                     306 PPEYVTPTPVTYSAASRSQSPQASG 330
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                                                                                                                                                           3 FPEVFSPTPDENSDQNSRSSSQASG 27
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nilarity 48.0%;
Conservative
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Pred. No. 7.9;
2; Mismatches
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                                                                                                                                                                                                                                     DB 7; Length 339;
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APPLICANT: VLAAMS INTERUNIVERSITAIR INSTITUUT VOC
TITLE OF INVENTION: GENES AND USES THEREOF TO MOI
FILE REFERENCES: DIN/SEM/V116
CURRENT APPLICATION NUMBER: US/10/991,285
CURRENT FILING DATE: 2004-11-16
PRIOR APPLICATION NUMBER: EP02076973.3
PRIOR FILING DATE: 2002-05-17
NUMBER OF SEO ID NOS: 901
SOPTWARE: PATENTIN VERSION 3.1
SOPTWARE: PATENTIN VERSION 3.1
SEQ ID NO 872
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US-10-991-285-872
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                                                                                                                                                                               US-10-991-285-872
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US-11-054-515-3229
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PRIOR FILING DATE: 2004-02-11
PRIOR PELICATION NUMBER: 60/580,347
PRIOR PELICATION NUMBER: 60/580,347
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2001-11-16
PRIOR PILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR PILING DATE: 2001-02-19
PRIOR PILING DATE: 2001-02-19
PRIOR APPLICATION NUMBER: 09/880,748
PRIOR PILING DATE: 2001-06-15
PRIOR PILING DATE: 2001-06-15
PRIOR PILING DATE: 2001-06-15
PRIOR PILING DATE: 2001-06-15
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 3229
LENGTH: 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 872, Applic Publication No. US20 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 29.4%;
Best Local Similarity 50.0%;
Matches 14; Conservative
                                                                                      Matches
                                                                                                      Query Match
Best Local Similarity
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CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR FILING DATE: 2000-10-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/276,248 PRIOR FILING DATE: 2001-03-16 PRIOR APPLICATION NUMBER: 60/240,816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/293,499 PRIOR FILING DATE: 2001-05-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind
                                                                                                                                                                                                                         FEATURE: NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
                                                                                                                                                                                                    OTHER INFORMATION: MAP3
                                                                                                                                                                                                                                                                   ORGANISM: Nicotiana tabacum
                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         118 PAPGEGNSSONSRNKRAVQGPEETGSYT 145
30
                       FPEVFSPTPDENSDQNSRSSSQAS 26
FSEIFSPMSSSNALPNSPSSSFGS 53
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/10991285 o. US20060041962A1
                                                                                      Conservative
                                                                                                      29.1%;
                                                                                 Score 51; DB 6; Pred. No. 6.8; 2; Mismatches 1
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Pred. No. 7;
2; Mismatches
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                                                                                                                                Length 227;
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2709, Application US/11072512 lon No. US20060029945A1

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                                                                          ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-612
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                                                                                                                                                                                                                                                                                                                                                                                                      JS-10-995-561-612
                                                                                                                           CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FRACESQ for Windows Version 4.0
SEQ ID NO 612
LENGTH: 361
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SEQ ID NO 2709
LENGTH: 571
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Best Local Similarity
Query Match
Best Local Similarity 37.
Matches: 11, Conservative
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                                                                                                                                                                                                                                                                                                                                                             Sequence 612, A Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
                                                                                                                                                                                                                                                                APPLICANT: CARGILL, MICHELE et al.
TITLE OF INVENTION: GENERIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RE-
TITLE OF INVENTION: DETECTION AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Homo sapiens
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LE OF INVENTION: Novel full length cDNA
E REFERENCE: 084335-0191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            359 PE--SPSPAPSLEENHRPGSQTSSHTSS-SVS 387
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NAGAI, KEIICHI
IRIE, RYOTARO
TAMECHIKA, ICHIRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUGIYAMA, TOMOY
OTSUKI, TETSUJI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WAKAMATSU, AI
SATO, HIROYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ISHII, SHIZUKO
YAMAMOTO, JUN-ICHI
ISONO, YUUKO
                                                                                                                                                                                                                                                                                                                                                                                Application US/10995561
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KOSHIKAWA, TSUTOMU
DTSUKA, MOTOYUKI
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46.9%; Pred. No. 32;
                     28.0%;
                   Score 49; DB 6; Length 361; Pred. No. 22;
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       Gaps
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US-10-517-939-274
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                                                           ; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(74)
US-10-517-939-274
                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 380
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 274
LENGTH: 377
TYPE: PRT
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Publication No. US20060019340A1
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Query Match
Best Local Similarity
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CURRENT APPLICATION NUMBER: US/11/130,206
CURRENT FILING DATE: 2005-05-17
NUMBER OF SEQ ID NOS: 44
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn version 3.3
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                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: PCT/US03/19153
PRIOR FILING DATE: 2003-06-16
PRIOR APPLICATION NUMBER: 60/389,299
PRIOR FILING DATE: 2002-06-14
                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 564462007901
CURRENT APPLICATION NUMBER: US/10/517,939
CURRENT FILING DATE: 2004-12-13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 361
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Blum, David
APPLICANT: Esteghlalian, Alireza
RITLE OF INVENTION: XYLANASES, NUCLEIC ACIDS ENCODING THEM
RITLE OF INVENTION: AND METHODS FOR MAKING AND USING THEM
                                                                                                                                         ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Obtained from an environmental sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28.0%; Score 49; DB Local Similarity 37.9%; Pred. No. 22; Pres 11; Conservative 5; Mismatches
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Golan, Itshak
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Healey, Shaun
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    28.0%;
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    Score 49;
Pred. No.
    DB 6;
23;
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                       Length 377;
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; Sequence 611, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORP
; TITLE OF INVENTION: CARDIOVASCULAR
                                                                                                                    RESULT 12
US-10-995-561-611
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US-10-995-561-616
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US-10-995-561-614
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US-10-995-561-616
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US-10-995-561-614
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Publication No. US20050272054A1

GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CENDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT APPLICATION SECONDATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FASESEQ for Windows Version 4.0
SEQ ID NO 614
LENGTH: 395
                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 616
LENGTH: 425
TYPE: PRT
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Publication No. US20050272054A1
GENERAL INFORMATION:
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Best Local &
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Best Local S
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TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RE.
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CL001559
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Local Similarity 37.9%;
es 11; Conservative
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                                                                                                                                                                                                                                                                       ch 28.0%;
1 Similarity 37.9%;
11; Conservative
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                                                                                                                                                                                                 PEDIYPSNPTDDDVSSGSSERSSTSGGY 193
Michele et al.
GENETIC POLYMORPHISMS ASSOCIATED WITH
CARDIOVASCULAR DISORDERS AND DRUG RE
                                                                                                                                                                                                                                                                     ; Score 49; DB;
; Pred. No. 27;
5; Mismatches
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27;
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US-10-995-561-617
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     Query Match 28.0%;
Best Local Similarity 37.9%;
Matches 11; Conservative
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TYPE: PRT
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; ORGANISM: Homo sapiens US-10-995-561-611
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; ORGANISM: Homo sapiens
US-10-995-561-610
                                                                                      ; ORGANISM: Homo sapiens
US-10-995-561-617
                                                                                                                            CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 617
LENGTH: 691
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 610
LENGTH: 535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 610, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRU
TITLE OF INVENTION: DETECTION AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: DETECTION AND USES THE REFERENCE: CLOO1559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILLING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTMARE: FRETSEQ for Windows Version 4.0
SEQ ID NO 611
SEQ ID NO 611
                                                                                                                                                                                                                                                                                                                                                                                             Sequence 617, Application No. US200 GENERAL INFORMATION:
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Best Local Similarity 37.9%;
Matches 11; Conservative
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Best Local Similarity 37.9%;
                                                                                                                                                                                                                                                                                APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RES
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CL001559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: CL001559
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; Pred. No. 32;
5; Mismatches
Score 49; DB
Pred. No. 47;
5; Mismatches
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Pred. No. 35;
5; Mismatches
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                                           Length 691;
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Indels

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Qy 4 PEVFSPTDENSDONSRSSQASGITGSY 32
Db 165 PEDIYPENPTDDVSGSSSERSSTSGGY 193

RESULT 15
US-11-130-206-4
Sequence 4, Application US/11130206
PUBLICANT: Near US2066019340A1
SEQUENCE INFORMATION:
APPLICANT: Near Lebak
PEPLICANT: Near Lebak
PEPLICANT: Near Lebak
PITLE OF INVENTION: DIRECTED THERENGAINST AND METHOD OF USING SAME FOR DIAGNOSING AN TITLE OF INVENTION: TREATING INFLAMMATORY DISEASES
PILE REFERENCE: 29306
CURRENT APPLICATION UNMER: US/11/130,206
CURRENT PILING DATE: 2030-05-17
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PRIC DING: 44
SOFTWARE: 13, Conservative 5; Mismatches 13; Indels 0; Gaps 0;
Watches 11; Conservative 5; Mismatches 13; Indels 0; Gaps 0;
Watches 11; Conservative 5; Mismatches 13; Indels 0; Gaps 0;

Qy 4 PEVFSPENDSDONGRSSSSASGITGSY 32
Db 165 PEDIYPENSDONGRSSSSASGITGSY 193

Search Completed: March 3, 2006, 14:19:05
Job time: 2.66667 secs
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Scoring table:
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Maximum DB
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Perfect score:
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seq length: 2000000000
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                                                                                                                          A_Geneseq_21:*
1: geneseqp1980
2: geneseqp1990
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176
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Listing first 45 su
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Copyright (c) 1993 - 2006 Biocceleration Ltd
                geneseqn1990s:*
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geneseqp2005s: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

| Regult<br>No. | Score | Query<br>Match | Length | 80 | ID         | Description        |
|---------------|-------|----------------|--------|----|------------|--------------------|
| 1             | 176   | 100.0          | 33     | N  | AAW79680   | 79680 Synthe       |
| N             | 176   |                | 3      | 4  | 3          | Humar              |
| w             | .176  | 100.0          |        | 6  | ADA26383   | Ada26383 Synthetic |
| 4             | 176   | 100.0          |        | œ  | ADN17176   | σ                  |
| ហ             | 172   | 97.7           |        | 4  | AAG73987   | Human              |
| 0             | 171   | 97.2           |        | N  | AAW79681   | 1 Human            |
| 7             | 171   | 97.2           |        | 4  | AAE07324   | Human              |
| œ             | 171   | 97.2           | 215    | 6  | ADA26384   |                    |
| 9             | 171   | 97.2           | 215    | 8  | ADN17177   | Adn17177 CS198 pro |
| 10            | 171   |                | 679    | N  | AAW79676   | Human              |
| 11            | 171   | 97.2           |        | 4  | AAE07319   | Human              |
| 12            | 171   | 97.2           |        | 4  | AAM78590   |                    |
| 13            | 171   | 97.2           | 679    | σ  | ADA26379   | Predic             |
| 14            | 171   |                | 679    | œ  | ADN17172   |                    |
| 15            | 171   | 7              | 692    | 8  | ADX97562   | Pancre             |
| 16            | 168   | S              | 679    | 7  | ADG14341   | 1 Human            |
| 17            | 166   | 94.3           | 672    | 4  | AAM79574 . | Aam79574 Human pro |
| 18            | 89    | Ò              | 43     | 8  | ABO60042   | N                  |
| 19            | 57    | N              | 124    | N  | AAY50146   | σ                  |
| 20            | 57    | 32.4           | 124    | N  | AAY50149   | 9                  |
| 21            | 57    | 32.4           | 124    | N  | AAY50148   | 8                  |
| 22            | 57    | 32.4           | 124    | N  | AAY50147   |                    |
| 23            | 57    | 32.4           | 124    | N  | AAY50150   | _                  |
| 24            | 57    | 32.4           | 124    | σ  | ABB98753   | Abb98753 Human res |
|               |       |                |        |    |            |                    |

| <b>4</b> 5 | 44       | 43       | 42       | 41       | 40        | 39       | 38       | 37        | 36        | 35        | 34       | 33        | 32        | 31        | 30        | 29        | 28        | 27       | 26       | 25       |
|------------|----------|----------|----------|----------|-----------|----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|
| 56         | 56       | 56       | 56       | 56       | 56        | 56       | 56       | 56        | 56        | 56        | 57       | 57        | 57        | 57        | 57        | 57        | 57        | 57       | 57       | 57       |
| 31.8       | 31.8     | 31.8     | 31.8     | 31.8     | 31.8      | 31.8     | 31.8     | 31.8      | 31.8      | 31.8      |          | 32.4      |           | 32.4      |           |           |           |          | N        |          |
| 523        | 523      | 523      | 523      | 523      | 523       | 523      | 523      | 484       | 483       | 142       | 658      | 614       | 601       | 480       | 472       | 432       | 124       | 124      | 124      | 124      |
| 4          | 4        | ω        | N        | ผ        | N         | N        | N        | 8         | 9         | u         | ហ        | υ         | v         | ហ         | N         | IJ        | σ         | Φ        | σ        | 6        |
| AAB81084   | AAB20263 | AAY54905 | AAW37986 | AAW59135 | AAR98212  | AAR66608 | AAR37493 | ADE28340  | AEB45520  | ADK34147  | AAM49759 | AAO17494  | AAM49760  | AAO17495  | AAY50166  | AAO17498  | ABB98750  | ABB98751 | ABB98752 | ABB98754 |
| Aab81084   | Aab20263 | Aay54905 | Aaw37986 | Aaw59135 | Aar98212  | Aar66608 | Aar37493 | Ade28340  | Aeb45520  | Adk34147  | Aam49759 | Aa017494  | Aam49760  | Aao17495  | Aay50166  | Aaol/498  | Abb98750  | Abb98751 | ADD98752 | ADD98754 |
| Human Cdc  | _        | ່ດ       | -        |          | Human CDC | -        |          | Human KPP | Human Cac | Novel hum |          | Antibody- | TNF-Selec | Antibody- | Human res | Ancibody- | Human res |          | н        | _        |

## ALIGNMENTS

AAW79680 Gastrointestinal tract; GI tract; cancer; disease; detection; CS19 human; predisposition; treatment; Barret's oesophagus; gastric ulcigastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis; AAW79680 standard; protein; 33 AA. 08-OCT-1998. Synthetic. Synthetic CS198 derived peptide #4. 11-JAN-1999 AAW79680; 30-MAR-1998; WO9844159-A1 (first entry) 98WO-US006251.

31-MAR-1997; (ABBO ) ABBOTT LAB. PA, Cohen M, Colpitts TL, Hayden M, Hodges SC, Klass L, Russell JC, Stroupe SD; 97US-00828855. Friedman PN, Gordon J; MR, Kratochvil JD;

Billing-Medel PA,

Roberts-Rapp Granados EN,

New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis. WPI; 1998-542714/46.

Claim 26; Page 103; 127pp; English.

AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative

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Best Local S
Matches 33
The invention relates to a method of detecting the presence of a target CS 198 polynuclectide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic
                                                                                                                                        Claim
                                                                                                                                                            Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                WPI; 2001-496163/54.
                                                                                                                                                                                                                                                    Granados EN,
                                                                                                                                                                                                                                                              Billingel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human CS 198 peptide
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(COHE/)
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ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
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HODGES S C.
KLASS M R.
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                                                                                                                                      Page 52;
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llarity 100.0%;
Conservative (
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Hayden M,
L, Russell
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                                                                                                                                     68pp; English.
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Pred. No. 5.4e-17;
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Kratochvil JD;
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Best Local
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                                                                                                                                                                                                              (COHE/)
(COLP/)
(FRIE/)
(GORD/)
                                                                                                                                                                                                                                                                                                                                                                                            cancer prognosticating; cancer prevention; can
gastrointestinal tract disorder; gene therapy.
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                                                                                              Billingel PA,
Granados EN,
                                                                                                                                                                                (HAYD/)
                                                                                                                                                                                                                                                                                                           23-OCT-2002;
                                                                                                                                                                                                                                                                                                                                 01-MAY-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic peptide based on CS198 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADA26383 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             consensus sequence
                                                                WPI; 2003-596961/56.
                                                                                   Roberts-Rapp
                                                                                                                                                                                                                                                                              30-MAR-1998;
                                                                                                                                                                                                                                                                                      31-MAR-1997;
                                                                                                                                        (RUSS/)
                                                                                                                                                                      (KLAS/)
                                                                                                                                                                                                     (GRAN/)
                                                                                                                                                                                                                                                        (BILL/)
                                                                                                                                                    ROBE/
                                                                                                                                                            (KRAT/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                    RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                33;
                                                                                                                                                                                                                                                                                                                                                                                                                 cancer diagnosis; cancer staging; cancer monitoring;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE
                                                                                                                                                                               GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                                                                                                                   COLPITTS
                                                                                                                                                                                                                                                        BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                           KRATOCHVIL J
                                                                                                                                                                                                                        COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EDSVDSAPPGORKKEOWYAGINPSDGINSEVLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
ilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AA;
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                                                                                                                                                                                                                                                                                                            2002US-00278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                   Cohen M,
Hayden MA,
L, Russell
                                                                                                                                                                                                                                                                              97US-00828855.
98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein;
                                                                                  Colpitts TL,
Hodges SC, |
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     33
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 176; DB 4;
Pred. No. 5.4e-17;
Mismatches 0;
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                                                                                   Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                       #4
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                                                                                                                                                                                                                                                                                                                                                                                                        cancer;
                                                                                              PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 33
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CS 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test

sample.

Claim 17; Page 52; 67pp; English

The invention describes a method of detecting the presence of a target CC CS198 polynucleotide in a test sample. The method comprises contacting CC the test sample with at least one CS198 specific polynucleotide or its CC complement, and detecting the presence of the target CS198 polynucleotide for its CC in the test sample, where the CS198-specific polynucleotide has at least CC in the test sample, where the CS198-specific polynucleotide has at least CC sow identity to a polynucleotide having any of the 27 fully defined CC sequences of 34-2894 bp (S1-27) given in the specification, or their CC diagnosing, staging, monitoring, prognosticion and methods are useful in CC diagnosing, staging, monitoring, prognosticating, preventing or treating, CC or determining the predisposition of an individual to, diseases and CC conditions of the gastrointestinal tract, e.g. cancer and in gene CC therapy. This is the amino acid sequence of a synthetic peptide based on CC consensus sequence shown in sequence derived from the CS198

8

EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE 33

Query Match Best Local S Matches 33

Similarity

100.0%;

Score 176; DB 6; Pred. No. 5.4e-17; Mismatches

Length Indels

33

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33,

Conservative

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Gaps

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Sequence

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RESULT 4
ADN17176
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                                                                                                                                                                                                                                                                                           CS198 peptide #4
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                                                                                                                                                                                     31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                             04-MAR-2004
                                                                                                                                                                                                                                                             Unidentified
                                                                                                                                                                                                                                                                           Gastrointestinal tract; GI tract; CS198; cancer; gene therapy
                                                                                                                                                                                                                                                                                                            17-JUN-2004
Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide,
                                               Billingel PA,
Granados EN,
                                                                                                                                                                                                             22-AUG-2003; 2003US-00646873.
                                                                                                                                                                                                                                             US2004043406-A1.
                        WPI; 2004-313754/29
                                       Roberts-Rapp
                                                                                                      (KLAS/)
                                                                                                                              (GORD/)
                                                                                                                                                      (COTA/)
                                                                                                                                              (FRIE/)
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                                                                                      ROBE/)
                                                                                               KRAT/)
                                                                                                                      HAYD/)
                                                                                                            GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
                                                                                                                                            COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                     BILLINGEL P A.
                                                                                                                                                              COHEN M
                                                                                      KRATOCHVIL J
ROBERTS-RAPP
                                                                        STROUPE
                                                                                                      KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                   EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE 33
                                       ŗ
                                                                                                                                                                                                                                                                                                            (first entry)
                                               Cohen
Hayden
                                                                                                                                                                                     97US-00828855
98US-00050516
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0.
                                       ohen M,
yden MA,
Russell
                                       Colpitts TL,
Hodges SC,
JC, Stroupe
                                        Klass
SD;
                                               Friedman PN, Gordon
Class MR, Kratochvil
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host cell and

culturing the

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RESULT 5
AAG73987
ID AAG7
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 33 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 17; SEQ ID NO 46; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              associated treatment methods
   example. N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P
                                                                                              AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAG73987 standard;
                                                                                                                                                                                                                                                 Nucleic acids encoding 4277 human useful for preventing, diagnosing
                                                                                                                                                                                                                                                                                                                                                                                                                   29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       colorectal carcinoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; colon cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human colon cancer antigen
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                                                                                                                                                                                                                Claim 11; Page 6550-6551; 9803pp;
                                                                                                                                                                                                                                                                                                 N-PSDB; AAH33418
                                                                                                                                                                                                                                                                                                                   WPI; 2001-235357/24.
                                                                                                                                                                                                                                                                                                                                                    Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-SEP-2000; 2000WO-US026524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200122920-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                    (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                  , MS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         33;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EDSVDSAPPGORKKEOWYAGINPSDGINSEVLE
                                                                                                                                                                                                                                                                                                                                                     Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                     99US-0157137P
99US-0163280P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein; 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        colon
                                                                                                                                                                                                                                                                                                                                                     Birse CE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer antigen; diagnosis; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 176; DB 8;
Pred. No. 5.4e-17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                 colon cancer-associated polypeptides, and/or treating colorectal cancers.
                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                                                                                                     Rosen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ID NO:4751
                                                                                                                                                                                                                                                                                                                                                     ξ
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Best Loc
Matches
 Best Loc
Matches
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                            Query Match
                                                                                        is used in a method to detect the presence of a target CS198 an marker for polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, straging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barrer's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative colitis, and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gastrointestinal tract; GI tract; cancer; disease; detection; CS19 human; predisposition; treatment; Barret's oesophagus; gastric ulc gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922
                                                        Sequence
                                                                                                                                                                                                  This sequence represents the C-terminal of the human CS198 protein which
                                                                                                                                                                                                                                                         for developing products for gastrointestinal disorders,
                                                                                                                                                                                                                                                                                      New
                                                                                                                                                                                                                                                                                                                                          Billing-Medel PA,
Granados EN, Hay
Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                               31-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9844159-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pancreatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human CS198
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAW79681 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 172
                                                                                                                                                                                                                                                                                                                                                                                                   (ABBO ) ABBOTT LAB.
             Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                   gastrointestinal polynucleotides, CS198, and their detection -
                                                                                                                                                                                                                                                                                                               1998-542714/46
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 32; Conserv
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                                                                                                                                                                                                                           Page 103; 127pp; English.
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 Conservative
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                                                                                    pancreatitis
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                                                                                                                                                                                                                                                                                                                                                         Hayden M
                                                                                                                                                                                                                                                                                                                                                                                                                              97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                          98WO-US006251
                                                                                                                                                                                                                                                                                                                                        , Cohen M, Colpitts TL, yden M, Hodges SC, Klass Russell JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C-terminal
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             97.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97.7%;
                                                                                                                                                                                                                                                       for the diagnosis and treatment ers, e.g. cancers, gastric ulcer
Score 171; DB Pred. No. 2.2e 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                215
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Pred. No. 1.2e-15;
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              .2e-15;
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MR, Krat
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                            Length 215;
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Kratochvil JD;
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invention provides an alternative,

non-surgical

diagnostic

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                         The CS 198 polymucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staying, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic immunoassays, as components or as target sites for various therapies. Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198
                                                                                                                                                                                                                                                                                                                     Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, corcontacting test sample with at least one CS 198-specific polynucle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CS 198; gastrointestinal tract disease; GI tract gastritis; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-NOV-2001
                                                                                                                                                                                                             The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198 specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (COHE/)
(COLP/)
(FRIE/)
(GORD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human CS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAE07324
                                                                                                                                                                                                                                                                                          Claim 17; Page 52-53;
                                                                                                                                                                                                                                                                                                                                                                                                                             Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GRAN/)
(HAYD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Barret's oesophagus; gene therapy; drug screening; human
              for the generation of chimeric antibodies for therapeutic use. The polynucleotide is also useful in gene therapy and drug screening.
                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-496163/54.
                                                                                                                                                                                                                                                                                                                                                                                                               Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (KRAT/)
(ROBE/)
(RUSS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          157
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GRANDOS E N.
GRANDOS E N.
HAYDEN M.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
ROBERTS -RAPP I
RUSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      198 protein C-terminal portion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDPVDSAPPGQRKKEQWYAGINPSDGINSEVLE
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                                                                                                                                                                                                                                                                                                                                                                                                                             Cohen
Hayden
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-00050516.
                                                                                                                                                                                                                                                                                                                                                                                                              Cohen M,
lyden M,
Russell
                                                                                                                                                                                                                                                                                          68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                              Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GI tract; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          189
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                               PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                        polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gastric ulcer;
                                                                                                                                                                                                                                                                                                                                        comprises
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Best Loc
Matches
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Granados E
                                                                                                           detecting
                                                                                                                                                    WPI;
                                                                                                                                                                                                                                                                                                                                                      31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                        01-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer prognosticating; cancer pagestrointestinal tract disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CS198;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADA26384,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   method capable of detecting early stage GI tract disease such as cancer. The present sequence is C-terminal portion of human CS 198 polypeptide
The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their
                                                                                                                               Detecting
                                                                                                                                                                                                                                                                                                                                                                                                                           US2003082619-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADA26384 standard; protein; 215
                                                                                                                                                                                                                                                                                (FRIE/)
(GORD/)
(GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                   23-OCT-2002;
                                                                                                                                                                                                                                                                                                               (COLE/)
                                                                               Claim
                                                                                                                                                                                                                                           (KRAT/)
                                                                                                                                                                                                                                                               HODG/)
                                                                                                                                                                                                                                                                                                                                  BILL/)
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                                                                                                                                                    2003-596961/56.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           32,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer diagnosis;
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                                                                                                                                                                                                            COHEN M.
COLPITTS T L.
COLPITTS T L.
GRANDAN P N.
GRANDON J.
GRANDON E N.
HAYDEM M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J D.
ROBERTS-RAPP J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
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                                                                                                                                                                                                                                                                                                                                   BILLINGEL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE
                                                                                                         the presence of a target CS198 polynucleotide in a test sample contacting the sample with a CS198 specific polynucleotide and the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       peptide
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                                                                                                                                                                      Hayden MA,
L, Russell
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98US-00050516.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer prevention; cancer;
                                                                                                                                                                      Colpitts TL,
Hodges SC,
LJC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer staging;
                                                                               English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 171; DB Pred. No. 2.2e 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene therapy.
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                                                                                                                                                                       Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 4;
.2e-15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer monitoring;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #5
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                                                                                                                                                                                  PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
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RESULT 9
ADN17171
XX
ADN17171
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ADN11
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Best Local S
Matches 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal track. e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADN17177
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(COHR/)
(BITT/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gastrointestinal tract;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADN17177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fragments or complements.
                                                                                                                                                                                                                                                                                                                    Billingel PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GORD/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-MAR-1997;
                                                                                                                                                                                                                                                                            Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                         (KLAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (FRIE)
                                                                                                                                                                                                                                                                                                                                                                                                  ROBE/
                                                                                                                                                                                                                                                                                                                                                                                                                         GRAT/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HAYD,
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32; Conser
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FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J E
                                                                                                                                                                                                                                                                                                                                                           KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BILLINGEL P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COHEN
                                                                                                                                                                                                                                                                                                   Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard; protein; 215 AA
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nilarity 97.0%;
Conservative
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                                                                                                                                                                                                                                                                                                 Cohen
Hayden
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98US-00050516.
                                                                                                                                                                                                                                                                                Russell
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                                                                                                                                                                                                                                                                              'n
                                                                                                                                                                                                                                                                                               Colpitts TL,
Hodges SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The composition and methods are useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tract;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 171; DB pred. No. 2.2e 0; Mismatches
                                                                                                                                                                                                                                                                              Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CS198;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              171; DB 6;
No. 2.2e-15;
                                                                                                                                                                                                                                                                                Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer;
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                                                                                                                                                                                                                                                                                                   PN, Gordon
Kratochvil
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                                                                                                                                                                                                                                                                                                 10;
11;
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The invention relates to reagents and methods for detecting distributes gastrointestinal (GI) tract. The method involves detecting presence of target (S198 polynucleotide in the test sample. The and compositions of the present invention are useful for the di

for the diagnosis associated with

The methods diseases the

prevention

Claim

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Diagnosing diseases such as ca

cancer of the on or activity

gastrointestinal tract, by of the CS198 polypeptide,

à and

treatment

methods.

WPI;

2004-313754/29.

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Best Local (
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                                                                                        Matches
                                                                                                                                                                                                                                                                           This sequence represents the human CS198 protein which is used in a method to detect the presence of a target CS198 polymuclectide in a termethod to detect the presence of a target CS198 polymuclectide in a termethod to the CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative colitis, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gastrointestinal tract; GI tract; cancer; disease; detection; CS19 human; predisposition; treatment; Barret's oesophagus; gastric ulc gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New gastrointestinal polynucleotides, CS198, and their detection - for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastriti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Billing-Medel PA, Cohen M, Colpitts TL,
Granados EN, Hayden M, Hodges SC, Klass
Roberts-Rapp L, Russell JC, Stroupe SD;
                                                                                                                                                                                                 Sequence 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-JAN-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26; Page 100-102; 127pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97US-00828855
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                                                                                                              97.2%;
97.0%;
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                                                                                  Score 171; DB Pred. No. 7.7e 0; Mismatches
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Pred. No. 2.2e
0; Mismatches
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                                                                                                                 DB 2;
7.7e-15;
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MR, Kratoch
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                                                                                                                                           Length 679;
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                                                                                        Gaps
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The invention relates to a method of detecting the presence of a target CC S198 polymucleotide comprising contacting the test sample with at least CC one CS 198 specific polymucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polymucleotides, polypeptides and antibodies are useful for CC detecting, diagnosing, staging, monitoring, prognosticating, preventing, CC treating or determining predisposition to diseases and conditions of the CC district such as cancer, gastric ulcer, gastritis, Crohn's disease, CC district such as cancer, gastric ulcer, gastritis, Crohn's disease, CC district such as cancer, gastric sand Barret's osenophagus. The CS 198 polypeptides are useful as standards or resgents in diagnostic cc immunoassays, as components or as target sites for various therapies. CC diagnostic directed against at least one epitope contained within these CC polypeptides are useful as delivery agents for therapeutic agents, in CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used
                                                                                                                                                                                                                                                                                                                                                           Billingel PA, C
Granados EN, Ha
Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                     WPI; 200
N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAE07319
                                                                                                                                                                                                                                                            Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprise contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GORD/)
(GRAN/)
(HAYD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Misc-difference
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                                                                                                                                                                                                                                   Claim 17; Page 49-51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                (KRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (KLAS/)
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                                                                                                                                                                                                                                                                                                                    2001-496163/54.
DB; AAD13637.
                                                                                                                                                                                                                                                                                                                                                                                                                   HAYDEN M.
HODGES S C.
KLASS M R.
KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GORDON J.
GRANADOS E N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   oesophagus;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard; protein; 679
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Hayden
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yden M,
Russell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene therapy; drug screening; human
                                                                                                                                                                                                                                                                                                                                                             Colpitts TL, Fr
Hodges SC, Klas
JC, Stroupe SD;
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                                                                                                                                                                                                                                                                                                                                                                             TL, Friedman
C, Klass MR,
                                                                                                                                                                                                                                                                                                                                                                                             PN,
                                                                                                                                                                                                                                                                                                                                                                              Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                             Gordon
                                                                                                                                                                                                                                                                               comprises
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for the

generation of chimeric antibodies for therapeutic use.

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ARMSULT 12
AAM78590
ID AAM78
XX AAM78
XX AAM78
XX O6-NC
XX Humar
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XX Homo
XX Vacci
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Best Local S
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27-APR-2000; 2000US-00560875.
20-JUN-2000; 2000US-00598075.
19-JUL-2000; 2000US-00620325.
01-SEP-2000; 2000US-00654936.
15-SEP-2000; 2000US-00663561.
20-CCT-2000; 2000US-00693325.
30-NOV-2000; 2000US-00728422.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; cytokine; cell proliferation; cell differentiation; gene th vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia;
The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating cytokine, cell proliferation or cell differentiation. Which may induc production of other cytokines in other cell populations. The polymucleotides and polypeptides are useful in gene therapy, vaccines o peptide therapy. The polypeptides have various cytokine-like activities e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activity in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-FEB-2001; 2001WO-US004098
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                                                                                                                                                                                                                                                                                                                            Nucleic acids encoding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zhao
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HYSEQ INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Liu C
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Wang D, Wang
Wejhrman T,
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                                                                                                                                                                                                                                                                                                       y polypeptides with cytokine-like activities, useful
therapy.
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Pred. No. 7.7e-15;
0; Mismatches 1
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J J, Zhang
Goodrich R
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                                                                                                    activities
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RESULT 13
ADA26379
ID ADA26379
AC ADA26
XX ADA26
AC ACAC
AC A
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer prognosticating;
gastrointestinal tract
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), (AAK52582) and 3666 (AAM80020) are omitted as the relevant sequence listing were missing at the time of publication
                                                                                                                                                                                           comprises
detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Predicted amino
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Granados EN,
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30-MAR-1998;
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                                                                                                                                                                                                                                   Detecting
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                                                                                                                                                                                                                                                                                                             Roberts-Rapp
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COHEN M.
COLPITTS T L.
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KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
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                                                                                                                                                                                                                                                                                                                                           PA,
                                                                                                                                                                                         the presence of a target CS198 polynucleotide in a test sample contacting the sample with a CS198 specific polynucleotide and the presence of the target CS198 polynucleotide in the test
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                                                                                                                                                                                                                                                                                                         , Cohen M,
Hayden MA,
L, Russell
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                                                                                                                                                                                                                                                                                                           Colpitts TL,
Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           679
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Pred. No. 7.7e-15;
D; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CS198
                                                                                                                                                                                                                                                                                                             Friedman
Klass MR,
SD;
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                                                                                                                                                                                                                                                                                                                                                     PN,
                                                                                                                                                                                                                                                                                                                                 N, Gordon
Kratochvil
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The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined

Claim 17;

Page 49-50; 67pp; English

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RESULT 14
ADN17172
AD ADN17172
XX ADN17
XX ADN17
XX ADN17
XX GASt1
DT 17-U
XX GASt1

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Best Local S
Matches 32
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                     The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis,
                                                                                                                             Claim 17;
                                                                                                                                                                      detecting a
                                                                                                                                                                                          Diagnosing diseases such as cancer of the gastrointestinal tract, detecting aberrant expression or activity of the CS198 polypeptid
                                                                                                                                                                                                                                                        GENBANK;
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Granados EN,
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(GRAN/)
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(COHE/)
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30-MAR-1998;
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NK; D87440.
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32; Conser
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
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FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                      RUSSELL
STROUPE
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KRATOCHVIL J
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                                                                                                                                                                                                                                                                                                                   Hayden MA,
L, Russell
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98US-00050516.
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Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tract;
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Pred. No. 7.7e-15;
D; Mismatches 1
                                                                                                                             English
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                                                                                                                                                                                                                                                                                                                     Klass
SD;
                                                                                                                                                                                                                                                                                                                                                               Friedman
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Kratochvil JD;
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                                                                                                                                                                                          polypeptide,
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RESULT 15
ADX97562
ID ADX97562
ID ADX97562
ID ADX977
AC ADX97
AC A
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               The invention relates to a novel human nucleic acid sequence of the CC pancreas and its encoded protein. The invention further comprises: proteins and peptides, preferably isolated, that contain a sequence concoded by the novel nucleic acid; and methods for diagnosis and treatment of pancreatic cancer, using a substance that inhibits or binds to the protein or its DNA, including: an antisense oligonucleotide, short interfering RNA or ribozyme directed against the pancreatic protein, an organic molecule, particularly having a molecular weight below 5000, ce especially 300, that binds to the pancreatic DNA, an aptamer or CC (monoclonal) antibody, preferably human or humanized, that binds to the pancreatic DNA, or an anti-idiotypic antibody raised against the compound, immunostimulant and/or radioiscope. The novel sequences are useful for inhibiting transcription activity. The novel sequences are useful for inhibiting transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pancreas tumor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADX97562 standard; protein; 692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     prevention and/or treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New nucleic acid differentially use as diagnostic agents and in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-OCT-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-APR-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADX97562;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; SEQ ID NO 110; 28pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rosenthal A,
Lichtner R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ROSE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-MAR-2003; 2003DE-01015834.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-MAR-2004; 2004EP-00090124.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EP1471075-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pancreatic cancer associated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (/ZNIH)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SPEC/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DAHL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2004-768082/76.
DB; ADX97491.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               621
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DAHL E.
SPECHT T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HINZMANN B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ROSENTHAL A
PILARSKY C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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Staub E, Roepcke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ă,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human
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Li X;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in pancreatic tumor tissue, for therapeutic agents.
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| Sear<br>Job  | 음 성  | 3 B O   | So               | នឧឧឧឧ   |
|--|--|---|------------------|---|
| Search completed: March 3, 2006, 13:35:25<br>Job time : 19.6385 secs | 1 EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE 33<br> | Query Match 97.2%; Score 171; DB 8; Length 692; Best Local Similarity 97.0%; Pred. No. 7.9e-15; Matches 32; Conservative 0; Mismatches 1; Indels 0; Gaps 0; | Sequence 692 AA; | cancer. This sequence represents one of the novel human pancreatic proteins of the invention. Note: This sequence is not shown in the specification, it has been electronically downloaded from a DVD-rom provided with this specification by the European Patent Office. |

(prosed) stable about sing.

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OM protein - protein search, using sw model
                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Maximum DB seg length: 200000000
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Gapop 10.0 , Gapext 0.5
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176
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                                                                                                                                                                                                                                                                                                                                                                                                                                    283416 segs, 96216763 residues
                                                                                                                                                                                       PIR 80:*
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                              283416
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# SUMMARIES

A;Description: catalyzes the hydrolysis of peptidyl-phosphotyrosine to release phosphat

A; Map position:

3p21.3-3p21.2

| 45                | 44                | 43          | 42          | 41                | 40                | 39                | 38                 | 37                | 36           | ω<br>5       | ω<br>A       | 33                | 32                | 31                 | 30          |
|-------------------|-------------------|-------------|-------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------|--------------|--------------|-------------------|-------------------|--------------------|-------------|
| 47                | 47                | 47          | 47.5        | 47.5              | 48                | 48                | 48                 | 48                | 48           | 48           | 48           | 48                | 48                | 48                 | 48          |
| 26.7              | 26.7              | 26.7        | 27.0        | 27.0              | 27.3              | 27.3              | 27.3               | 27.3              | 27.3         | 27.3         | 27.3         | 27.3              | 27.3              | 27.3               | 27.3        |
| 356               | 333               | 97          | 634         | 210               | 972               | 863               | 681                | 546               | 535          | 535          | 408          | 330               | 315               | 290                | 113         |
| 1                 | N                 | N           | N           | N                 | N                 | N                 | N                  | N                 | N            | ۲            | N            | N                 | μ                 | N                  | N           |
| AJAAQ             | C37145            | PH1155      | T27465      | JH0794            | S35521            | T49709            | T01469             | S67292            | C24187       | WMBEW1       | S51467       | D95879            | AJYLNB            | B29550             | 855535      |
| glutamate-ammonia | probable helvetic | Ig heavy ch | hypothetica | gamma-aminobutyri | DNA topoisomerase | related to glucan | nypothetical proce | probable membrane | hypothetical | ULZI protein | hypothetical | probable dinydrox | glutamate-ammonia | hypothetical proce | Ig heavy ch |
|                   | - :-              | ē           | . ⊢         | ģ                 | me                | ıτδ               | i<br>اور           | g                 | T proce      |              | ·            | pyo               |                   | ď                  | chain V     |

### ALIGNMENTS

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R;Lamerdin, J.B.; McCready, P.M.; Skowronski, B.; Adamson, A.W.; Burkhart-Schultz, K.; Crgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, M.; Ow, D.; Nolan, M.; submitted to the EMBL Data Library, January 1998
A;Description: Sequence analysis of a 3.5 Mb contig in 19p13.3 between CDC34 and D19S34: A;Reference number: Z14195
A;Reference number: Z14195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein F21856_2 - human
C;Species: Homo sapiens (man)
C;Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ś
                                                                                                                                                                                                       R;Galaktionov, K.; Beach, D.
Cell 67, 1181-1194, 1991
A;Title: Specific activation of cdc25 tyrosine phosphatases by B-type cyclins: evidence
A;Reference number: A41648; MUID:92103683; PMID:1836978
                                                                                                                                                                                                                                                                                                                                        protein-tyrosine-phosphatase (EC 3.1.3.48) cdc25A - human
N;Alternate names: cell division cycle protein cdc25A
C;Species: Homo sapiens (man)
C;Date: 28-May 1992 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: DNA
A; Residues: 1-679 < LAM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 1
                                                                         A;Molecule type: mRNA
A;Residues: 1-523 <GAL>
A;Cross-references: UNIPROT:P30304; UNIPARC:UPI0000038993; GB:M81933; NID:g180170; PIDN
C;Comment: This protein can be activated by association with cyclin B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Note: F21856_2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Map position: 19p13.3
A;Introns: 594/1; 637/3; 650/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:Q8IVT2; UNIPARC:UPI00000745CD; EMBL:AC004030; NID:g2804590;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C; Accession: T00636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    T00636
A;Cross-references: GDB:133773; OMIM:116947
                        A; Gene: GDB: CDC25A
                                                         C;Genetics
                                                                                                                                                                                    A; Accession: A41648
                                                                                                                                                                                                                                                                                                                     C;Accession: A41648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97.2%;
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Pred. No. 9.3e-16;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 679;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
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A;Pathway: initiation of mitosis
A;Note: cdc25 activates the cdc2 protein kinase by dephosphorylating it
C;Superfamily: human protein-tyrosine-phosphatase cdc25A; cdc25-type protein-tyrosine-ph
C;Keywords: cell cycle control; mitosis; phosphorotein; phosphoric monoester hydrolase;
E;312-505/Domain: cdc25-type protein-tyrosine-phosphatase homology <PTP>
F;430/Active site: Cys (phosphorysteine intermediate) #status predicted
F;436/Binding site: substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-1311 <BEV>
A;Cross-references: UNIPROT:Q9SZW3; UNIPARC:UPI00000AA8E7; EMBL:AL078464; GSPDB:GN00062;
A:Rxmetimental source: cultivar Columbia; BAC clone F6G3
S
                                                                                                                                                                                                                                                                                                                                   R;DelVecchio, V.G.; Kapatral, V.; Redkar, R.J.; ; Mazur, M.; Goltsman, B.; Selkov, E.; Elzer, P. Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002 A;Title: The genome sequence of the facultative A;Reference number: AD3252; PMID:11756688 A;Accession: AH3484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2'-5' RNA ligase (EC 6.5.1.-) [imported] - Brucella melitensis (strain 16M) C;Species: Brucella melitensis C;Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 12-Jul-2004
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A;Reference number: Z16520
A;Accession: T08986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Date: 11-Jun-1999
C;Accession: T08986
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                                                                                                                                                A; Map position: I
C; Superfamily: 2'-5'
                                                                                                                                                                                         A; Gene: BMEI1862
                                                                                                                                                                                                                                   A; Experimental source:
                                                                                                                                                                                                                                                  A;Molecule type: DNA
A;Residues: 1-196 <KUR>
A;Cross-references: UNIPROT:QBYEL6; UNIPARC:UPI0000058229; GB:AE008917;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Introns: 414/1; 474/1; 506/1; 547/2; 591/3; 1179/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hypothetical protein F6G3.130 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear_cress)
                                                                                                                                                                                                                                                                                                                      A;Status:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Map position:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gene: ATSP:F6G3.130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Accession: AH3484
                                           Matches
                                                                                                                              Keywords: ligase
                                                                                                                                                                                                                 Genetics
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9; Conserv
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  GQRKKEQWYAGINPSDGINS 29
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                                           Conservative
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                                                                                                                                                RNA ligase, prokaryotic LigT
                                                                                                                                                                                                                                   strain
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45.0%;
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Pred. No. 7.6;
                                                               Score 55;
Pred. No.
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Pred. No. 25
                                         5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                        R.J.; Patra, G.; Mujer, C.; Los, T.; lzer, P.H.; Hagius, S.; O'Callaghan, I
                                                                                  BB
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A; Crous: Flyeser-Cyaco

A; Cross-references: FlyBase:FBgn0000299

A; Introns: 7/2; 23/3; 33/3; 505/2; 989/1; 1312/1; 1689/3

C; Superfamily: collagen alpha 1(IV) chain

C; Keywords: basement membrane; cell binding; coiled coil; disulfide bond; duplication; e

F; 1-23/Domain: signal sequence #status predicted <SIG>

F; 24-1775/Product: collagen alpha 1(IV) chain #status predicted <MAT>

F; 65-67/Region: cell attachment (R-G-D) motif

F; 130-132/Region: cell attachment (R-G-D) motif

F; 238-240/Region: cell attachment (R-G-D) motif

F; 297-299/Region: cell attachment (R-G-D) motif

F; 1075-1077/Region: cell attachment (R-G-D) motif

F; 1173-1175/Region: cell attachment (R-G-D) motif

F; 125-127/Region: cell attachment (R-G-D) motif

F; 125-127/Domain: repeat NC1 #status predicted <NC1>

F; 72/Binding site: carbohydrate (Asn) (covalent) #status predicted

F; 70,573bsulfide bonds: interchain #status predicted

F; 71,573-777/1-in-if-id-b-node: #status predicted
                                                                                                                                             F;72/Binding better bonds: intercuary F;570,573/Disulfide bonds: #status F;1611-1617,1720-1727/Disulfide bonds: #status
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A;Residues: 1065-1775 EBLU2>
A;Cross-references: UNIPARC:UPI00001773AF, EMBL:J02727
R;Monson, J.M.; Natzle, J.; Friedman, J.; McCarthy, B.J.
Proc. Natl. Acad. Sci. U.S.A. 79, 1761-1765, 1982
A;Title: Expression and novel structure of a collagen gene
A;Reference number: A19442; MUID:82197577; PMID:6210912
A;Accession: A19442
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A; Residues: 1-1775 <BLU>
A; Cross-references: UNITROT: P08120;
A; Ctross-references: UNITROT: P08120;
R; Blumberg, B.; MacKrell, A.J.; Olsc
R; Blumberg, B.; MacKrell, A.J.; Olsc
T, Biol. Chem. 262, 5947-5950, 1987
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Eur. J. Biochem. 165, 587-593, 1987
A;Title: Evidence for a type-IV-related collagen in Drosophila melanogaster.
A;Reference number: S00020; MUID:87246644; PMID:3109906
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A;Molecule type: DNA
A;Residues: 762-947,'S',949-996,'T',998-1230 <MON>
A;Residues: 762-947,'S',949-996,'T',998-1230 <MON>
A;Cross-references: UNIPARC:UPI000016BB4B; GB:J01074; EMBL:V00200; NID:g7736; PIDN:CAA23
A;Cross-references: Uniparc: R: Mirre, C:; le Parco, Y.
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A;Molecule type: DNA
A;Residues: 1355-1356,'K',1358-1359,'K',1361-1372,'I',1374-1495,'R',1497-1506,'RA',1509,
A;Cross-references: UNIPARC:UPI00001773B0; EMBL:M28334
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                                                                                                              Score 54.5;
Pred. No. 4
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                                                                                Mismatches
                                                                                                                  48;
                                                                                                                                                    DB 2;
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Monson, J.M.; Natzle, J.E.; F
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A;Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, Smith, H.O.; Woese, C.R.; Venter, J.C.
A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing arch A;Reference number: A69250; MUID:98049343; PMID:9389475
A;Accession: H69453
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A, Residues: 1-227 <KLE>
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                                                                                                          2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase NyAlternate names: hypothetical protein T8X2.20 C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_C;Accession: T00613; D84437
                                A; Reference number: Z14192
                                                                         R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, submitted to the EMBL Data Library, June 1998
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Best Local S
Matches .9
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Best Local
                Accession: T00613
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Reference number: Z25022
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translated from GB/EMBL/DDBJ
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                                                                                                                    C;Species: Listeria monocytogenes
C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001
C;Accession: AE1171
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Science 294, 849-852, 2001
Science 294, 849-852, 2001
A; Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, A; Authors: Kreft, J.; Kuhn, M.; Tierrez, A.; Vazquez-Boland, J.
                                      D.; Jones, L.M.; Karst,
Science 294, 849-852, 2
                                                                           R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, .; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.;
                                                                                                                                                                           alcohol dehydrogenase homolog lmo0773 [imported] - Listeria monocytogenes (strain
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                                                                                                                  Accession: AE117
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genomics of

Dussurget, O.;

F.; Berch; Entian,

Berche, P.; tian, K.D.;

P.

; Bloecke, Fsihi, H

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Voss, Maitournam, #text\_change 09-Jul-2004

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A;Experimental source: cultivar Columbia
R;Lin, X:; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; Vanaken, S.E.; Umayam, L.; Tallon,
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Murphy, L.; Harris, D.; Bentley, S.D.; submitted to the EMBL Data Library, April A;Reference number: Z21597
A;Accession: T36691
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A; Residues: 1-278 <STO>
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R;Murphy, L.; Harri
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Alzheimer's disease amyloid beta/A4 protein homolog precursor - mouse . N;Alternate names: proteinase nexin II C;Species: Mus musculus (house mouse) C;Date: 31-Mar-1989 #sequence revision 31-Mar-1989 #text_change 09-Jul-2004 C;Accession: A27485; S19727; T49485 R;Yamada, T.; Goto, I.; Sakaki, Y. R;Yamada, T.; Sasaki, H.; Purnya, H.; Miyata, T.; Goto, I.; Sakaki, Y. Biochem. Biophys. Res. Commun. 149, 665-671, 1987 A;Title: Complementary DNA for the mouse homolog of the human amyloid beta A;Reference number: A27485; MUID:88106489; PMID:3322280
                                             A;Experimental source: brain
R;de Strooper, B.; van Leuven, F.; van den Berghe, H.
Biochim. Biophys. Acta 1129, 141-143, 1991
A;Title: The amyloid beta protein precursor or proteinase
A;Reference number: S19727; MUID:92096458; PMID:1756177
A;Accession: S19727
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C;Keywords: phosphotransferase
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R;Parkhill, J.; Wrer
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A;Residues: 1-329 <GLA>
A;Cross-references: UNIPROT:Q8Y8W9; UNIPARC:UPI000054D36; GB:NC_003210; PIDN:CAC98851.
A:Experimental source: strain EGD-e
A;Molecule type: mRNA
A;Residues: 1-210,'G',212-220,'S',222-396,'A',398-402,'T',404-448,'A',450-695
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A; Residues: 1-695 < YAM>
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A; Residues: 1-333 < KUR>
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                                                                                                                                                                                                             PIDN
                  R;Dildrop, R.; Bovens, J.; Siekevitz, M.; Beyreuther, K.; Ra;
EMBO J. 3, 517-523, 1984
A;Title: A V region determinant (idiotope) expressed at high
A;Reference number: A91000; MUID:84182519; PMID:6201362
A;Accession: A02037
A;Molecule type: protein
A;Residues: 1-120 < DIL;
A;Cross-references: UNIPROT:P06329; UNIPARC:UP10000028A6B
A;Cross-references: UNIPROT:P06329; UNIPARC:UP10000028A6B
C;Superfamily: immunoglobulin V region; immunoglobulin homoloc;Keywords: heterotetramer; immunoglobulin
F;1-98/Region: V segment
                                                                                                                                                                                                                                                                                                             Ig heavy chain V region (AC38 15.3) - mouse (tentative sequence) C;Species: Mus musculus (house mouse) C;Decies: Mus musculus (house mouse) C;Date: 30-Jun-1987 #sequence_revision 30-Jun-1987 #text_change 09-Ju1-2004 C;Accession: A02037
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immunoglobulin homology < IMM:

expressed at high frequency in B lymphocytes PMID:6201362

homology

K.; Rajewsky,

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Gene 112, 189-195, 1992
A;Title: Positive and negative regulatory elements for the A;Reference number: I49485; MUID:92209998; PMID:1555768
A;Accession: I49485
                                                                                                                                                                        A;Molecule type: protein
A;Residues: 28-60;215-242;243-273;341-363;391-402 <KA2>
A;Residues: 28-60;215-242;243-273;341-363;391-402 <KA2>
A;Cross-references: UNIPARC:UPI000017CBAD; UNIPARC:UPI000017CBAE; UNIPARC:UPI000017CBAF;
C;Comment: This enzyme, which is related to subgrouup 1 of aminotransferase, is responsil C;Keywords: carbon-sulfur lyase
                                                                                                                                                                                                                                                                                         A;Molecule type: mRNA
A;Residues: 1-431 <KAKS
A;Cross-references: UNIPROT:Q9P963; UNIPARC:UPI000006C5FE;
A;Experimental source: strain AHU8443
A;Accession: PC7177
                                                                                                                                                                                                                                                                                                                                                                                                       Biosci. Biotechnol. Biochem. 65, 1511-1518, 2001
A;Title: 1-Aminocyclopropane-1-carboxylate synthase of Penicillium
A;Reference number: JC7730; MUID:21406359; PMID:11515533
A;Accession: JC7730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
JC7730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Map position: 16C3
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase C;Keywords: alternative splicing; amyloid; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Jul-2004 C;Accession: JC7730; PC7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Molecule type: DNA
A;Residues: 1-19 <RES>
A;Cross_references: UNIPARC:UPI00000003B7; GB:D10603; NID:g220328;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R; Kakuta, Y.; Igarashi, T.; Murakami, T.; Ito, H.; Matsui, H.; Honma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - Penicillium citrinum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Status: translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;Species:
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                                                                                           Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Penicillium citrinum
  11
                                            1 EDSVDSA---PPGQRKKEQWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 DSVDSAPPGQRKKEQWYAGINP--SDGINSEVLE 33
                                                                                                              Similarity
QDVVDAGSENPMWDVMKDTWHASTNPTGYVNVGVAE 46
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                                                                                           Conservative
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                                                                                                           28.1%;
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                                                                                                              Score 49.5;
Pred. No. 5
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72;
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A;Molecule type: DNA
A;Residues: 1-224 <STO>
A;Cross-references: UNIPROT:Q9A825; UNIPARC:UPI00000C740A; GB:AE005673; NID:g13422922;
C;Genetics:
A;Gene: CC1539
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F;106-120/Region: J segment
F;22-96/Disulfide bonds: #status predicted
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A;Title: Complete Genome Sequence of Caulobacter crescentus.
A;Recession: 887440
Search completed: March Job time: 4.08455 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transcription regulator, TetR family [imported] - Caulobacter crescentus C;Species: Caulobacter crescentus C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 09-Jul-2004 C;Accession: B87440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 27.8%; Score 49; DB 1; Length 120; Best Local Similarity 55.6%; Pred. No. 14; Matches 10; Conservative 2; Mismatches 4; Indels
                                                                                                                                                                                                     Query Match 27.8%; Score 49; DB 2; Length 224; Best Local Similarity 56.2%; Pred. No. 28; Matches 9; Conservative 2; Mismatches 5; Indels
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41 PGQGL--EWIGGINPSNG 56
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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Copyright (c) 1993 - 2006 Biocceleration Ltd

    2006, 13:19:17; Search time 12.6035 Seconds
(without alignments)
    1847.299 Million cell updates/sec

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028640
Q7nqra
Q53mb7
Q82qf4
Q96u31
Q9fu31
Q7ru49
Q41p6
Q89j60
Q782d8
Q67e42
Q9rnd0
Q67e42
Q67e42
Q67e42
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Q6k9n4
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Q57ft5
Q8g368
Q8yel6
Q86na6
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CS021 HUMAN

ID CS021 HUMAN

STANDARD;

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AC QBYVT2;

T 13-SEP-2005 (Rel. 48, Created)

DT 13-SEP-2005 (Rel. 48, Last seque)

DT 13-SEP-2005 (Rel. 48, Last annot be protein C19orf11;

GN Name=C19orf21;
                        A Straubberg R.D., Feingold E.A., Grouse L.H., Derge J.G.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Diatchenko L., Marusina K., Farmer A.F., Casavant T.L., Scheetz T.E.,

Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McZwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Blakends S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Pahey J., Helton B., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M.,

A Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M.,

A Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

Tenderention and initial analysis of more than 15,000 full-length human

Tenderentics S.M. Marra M.A.;
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Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                This Swiss-Prot entry is copyright. It is produced through a between the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                      EMBL; BC042125;
EMBL; BC052236;
                                                                                                                                                                                                                                                                                                                and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                PIR; T00636; T00636.
Ensembl; ENSG00000099812; Homo sapiens.
                                                                                                                                                                                                              use as long as its content is in no way modified and this statement
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AAH52236.1; -;
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Last annotation update)
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Q72JR4_THET2
Q63PBB_BURPS
Q62EJ4_BURPA
Q53ZT3_MOUSE
Q8734_BRAJA
Q5N778_ORYSA
ISPD_ARATH
Q8ZEN3_STRAW
Q9X935_STRAW
Q9X935_STRAW
Q9X935_STRAW
Q9X935_XANCP
Q8PB69_XANCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q7NDY3_GLOVI
                            Potential.
; D2881CF5087E61F8 CRC64;
                                                                                                                                          mRNA.
                                                                                                                                                              mRNA.
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Q62ej4
Q53zt3
Q53zt3
O87342
Q5n7y8
P69834
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Q8pb69
Q7ndy3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q82en3
Q9x935
Q4nnp1
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Match

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Query

171 123.5 59.5 58 56 56

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30.7 30.7 30.7 30.1 30.1 30.1 29.8 29.5 29.5 29.5

Minimum DB Maximum DB

seq length: 0
seq length: 2000000000

2166443 segs,

Database

UniProt\_05.80:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Scoring table: Sequence: Perfect score:

US-10-646-873-46 176

Query Match

Length 679;

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RESULT 3
CG021 MOU
ID CG02
AC Q9D2
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DT 13-7
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ID CS021 PONPY
AC O5RBH3;
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Best Local
NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

MEDLINE=22354683; PubMed=1246685; DOI=10.1038/nature01266;

Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,

Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.

Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori

Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,

Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,

Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousine

Balla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,

Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,

Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-SEP-2005 (Rel. 48, Created)
13-SEP-2005 (Rel. 48, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Protein C19orf21 homolog.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus (Mouse).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The German cDNA consortium;
Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-SEP-2005 (Rel. 48, Created)
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13-SEP-2005 (Rel. 48, Last ann
Protein C19orf21 homolog.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=10090;
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l Similarity 97.0%;
32; Conservative
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32; Conser
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685 AA;
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Pred. No. 6.4e-15;
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Pred. No. 6.4e-15;
0; Mismatches 1
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RESULT 4 Q581Y7 EM ID Q581 AC Q581 DT 10-M

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Q5B1Y7 EMENI PRELIMINARY; Q5B1Y7; 10-MAY-2005 (TrEMBLrel. 30,

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RX. SIGNALWEFUP, 11500E-COLUM, RX. MEDILINE-2238857; Pubmede112477932; DOI=10.1073/pnas.242603899; RX KIRBLINE-2238857; Pubmede112477932; DOI=10.1073/pnas.242603899; RA KIRBLINE-2238857; Pubmede112477932; DOI=10.1073/pnas.242603899; RA KIRBLINE-2238857; Pubmede11..., Schemmen C.M., Schuler G.D., RX KIRBLINE-2238857; Pubmede11..., Schemmen C.M., Schuler G.D., RA Allechul S.F., Zeebberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Bolatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., RA Hopkins R.F., Jordaldo M.F., Cassavant T.L., Scheetz T.E., Scheetz M.B., Bonaldo M.F., Cassavant T.L., Scheetz T.E., RA Stapleton M., Soares M.B., Bonaldo M.F., Casravant T.L., Scheetz T.E., RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., RA Brownstein M.J., Walek S., Carninci P., Prange C., RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., RA Raha S.S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., RA Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Ra Willalon D.K., Muzny D.M., Sodergren E.J., Dickson M.C., RA Rahesley R.W., Touchman J.W., Green E.D., Dickson M.C., RA Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M., Ra Rackelley R.W., Touchman J.W., Green E.D., Dickson M.C., Schnutz J., Myers R.M., Ra Rackelley R.W., Touchman J.W., Green E.D., Dickson M.C., Schnutz J., Myers R.M., Schnutz J., Schnutz J., Myers R.M., Schnutz J., Myers R.M., Schnutz J., Myer
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Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,

WA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,

WA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,

Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,

WA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,

Sandelin A., Schneider C., Semple C.A., Secou M., Shinada K.,

Waltana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,

Waltana R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,

Waltining L.G., Wynshaw-Boris A., Yangajisawa M., Yang I., Yang L.,

Wan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,

Wayan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,

Wayan Z., Zavolan M., Zhu Y., Zimmer A., Sakazume N., Sato K.,

Wahiming L.G., Wynshaw-Boris A., Wasamura M., Sakazume N., Sato K.,

Wahimaki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,

Hara A., Hashizume W., Imoteni K., Ishii Y., Itoh M., Kagawa I.,

Wasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,

Wasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
                                                                                                                                                             Matches
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Best Local :
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"Analysis of the mouse transcriptome based on functional annotation 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; AK020266; BAB32049.1; -; mRNA.
EMBL; BC013508; AAH13508.1; -; mRNA.
Ensembl; ENSMUSG00000035852; Mus musculus.
MGI; MGI:1926156; 9130017N09Rik.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This Swiss-Prot entry is copyright. It is produbetween the Swiss Institute of Bioinformatics the European Bioinformatics Institute. There a
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                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              removed.
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DSAPPGOKTRKEMWYAGINPSDSVNSEVL
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nilarity 79.3%;
Conservative
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                                                                                                                                                         Score 123.5; DB 1
Pred. No. 2.7e-08;
3; Mismatches 2
                                                                                                                                                                                                                                                                                                                           Potential.
1E395B70763B3D1F CRC64;
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AC STRAINGROUD. ABOUGHIGH A., Allen N., ANGRESON S. R. Arachchi H. M., Barna N., Bastien V., Bloom T., Boguslavkiy L., RA Arachchi H. M., Barna N., Bastien V., Bloom T., Boguslavkiy L., RA Boukhgalter B., Butler J., Calvo S.E., Camarata J., Chang J., RA Choepel Y., Collymore A., Cook A., Cooke P., Corum B., DeArellano K., RA Choepel Y., Collymore A., Cook A., Cooke P., Corum B., DeArellano K., RA Choepel Y., Dodge S., Dooley K., Dorris L., Elkins T., Engels R., RA Gardyna S., Gnerre S., Ferreira P., FitzGerald M., Gage D., Galagan J., RA Happian D., Hagos B., Hall J., Horton L., Hulme W., Iliev I., RA Hagopian D., Hagos B., Hall J., Horton L., Hulme W., Iliev I., RA Hagopian D., Hagos B., Hall J., Horton L., Hulme W., Iliev I., RA Kells C., Landers T., Levine R., Lindhad-Toh K., Liu G., Lui A., RA Kells C., Landers T., Levine R., Lindhad-Toh K., Liu G., Lui A., RA Mallora T., Mauceli E., McCarthy M., Meldrim J., Meneus L., Marthews C., Mauceli E., McCarthy M., Meldrim J., Meneus L., Mathews C., Murphy T., Naylor J., Najor J., Nicol R., RA Nielsen C.B., Norbu C., O'Connor T., O'Donnell P., O'Neil D., Nicol R., Peterson K., Phunkhang P., Pierre N., Purcell S., Rachupka A., Ramasamy U., Raymond C., Retta R., Rise C., Rogov P., RA Rachupka A., Ramasamy U., Raymond C., Retta R., Rise C., Rogov P., RA Smith C., Spencer B., Stange-Thomann N., Stojanovic N., Smirnov S., Saith C., Spencer B., Stange-Thomann N., Stojanovic N., Swibbs M., RA Vassiliev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B., Wang S., Wilson B., Yang S., Yang S., Wilson B., Wang S., Wilson B., Wang S., Wilson B., Wang S., Wilson B., Wang S., Wang 
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Q6TMR3
SERVICE SERVIC
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Matches 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Pungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
Eurotiales; Trichocomaceae; Emericella.
NCBI_TaxID=227321;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q6TMR3_STRCL
Q6TMR3;
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10-MAY-2005 (TrEMBLrel.
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                                                                                                                           NUCLEOTIDE SEQUENCE.
Wu W., Roy K.L.;
Submitted (SEP-2003) to
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                                       EMBL; AY392416; AAQ93560.1; Plasmid.
                                                                                                                                                                                                                                                                                Streptomycineae;
NCBI_TaxID=1901;
                                                                                                                                                                                                                                                                                                                                         Bacteria, Actinobacteria, Actinobacteridae, Actinomycetales, Streptomycineae, Streptomycetaceae, Streptomyces.
                                                                                                                                                                                                                                                                                                                                                                                                               Plasmid pSCL2
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SEQUENCE
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i, AACD01000094; EAA62603.1; -; Genomic_DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                166
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232 AA;
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Last
                                                                          EMBL/GenBank/DDBJ databases
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Pred. No. 12;
4; Mismatches
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704240B23746D3F7 CRC64;
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RESULT 6

Q9ACQ1_STRCO
Q9ACQ1_STRCO PRELIMINARY;
AC
Q9ACQ1;
DT
O1-JUN-2001 (TYEMBLrel. 17, C1)
DT
O1-JUN-2001 (TYEMBLrel. 24, L2)
DT
D1-JUN-2001 (TYEMBLrel. 17, L2)
D1-JUN-2001 (TYEMBLRel. 17, L2)
D1-JUN-2001 (TYEMBLRel. 17, L2)
D1-JUN-2001 (TYEMBLRel. 17, L2)

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STRAIN-A3(2) / M145;
MEDLINE-21996410; PubMed=12000953; DOI=10.1038/417141a;
Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
Thomson N.R., James K.D., Harris D.E., Quail M.A., Kleser H.,
Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
Cronin A., Fraser T., Larke L., Murphy L.D., Oliver K., O'Neil S.,
Rabbinowitsch E., Rajandream M.A., Rutherford K.M., Rutter S.,
Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,
Warren T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                p30304; Q8IZH5; Q96IL3; Q9H2F2;
01-APR-1993 (Rel. 25, Created)
25-OCT-2004 (Rel. 45, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
M-phase inducer phosphatase 1 (EC 3.1.3.48) (phosphatase Cdc25A).
                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human)
Eukaryota; Metazoa;
Mammalia; Eutheria;
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Streptomycineae, Streptomycetaceae, Streptomyces.
Galaktionov K.I., Beach D.; "Specific activation of cdc25 tyrosine phosphatases evidence for multiple roles of mitotic cyclins."; Cell 67:1181-1194(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nature 417:141-147(2002).
EMBL; AL590464; CAC36793.1; -; Genomic_DNA
                                                                                                                                                      NUCLEOTIDE SEQUENCE (ISOFORM 1).
MEDLINE=92103683; PubMed=1836978; DOI=10.1016/0092-8674(91)90294-9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Name=CDC25A;
                                                                                                                                                                                                                                                                 NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Complete genome sequence of the model actinomycete Streptomyces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
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Euarchontoglires; Pi
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Last annotation updat
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Pred. No.
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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., RA Altechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Altechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Altechul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Zasa Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., RA Stapleton M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C., RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C., RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Pahey J., Helton E., Ketteman M., Madan A., Gay L.J., Hulyk S.W., Pullalon D.K., Wong A.C., Shevchenko Y., Bouffard G.G., A Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Schein J.E., Jones S.J.M., Marra M.A., Friedman M., Madan A., Marra M.A., Friedman M., Schein J.E., Jones S.J.M., Marra M.A., Friedman M., Madan A., Kang M.A., Marra M.A., Friedman M., Madan A., Marra M.A., Friedman M., Madan A., Marra M.A., Mar
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Cell 93:617-625(1998)
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MEDLINE=98265972; PubMed=9604936; DOI=10.1016/S0092-8674(00)81190-3;

Fauman E.B., Cogswell J.P., Lovejoy B., Rocque W.J., Holmes W.,

Montana V.G., Plymica-Worms H., Rink M.J., Saper M.A.;

"Crystal structure of the catalytic domain of the human cell cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wegener S., Hampe W., Herrmann D., Schaller H.C.; "Alternative splicing in the regulatory region of the human phosphatases CDC25A and CDC25C.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "NIEHS-SNPB, environmental genome project, NIEHS ES15478, Department of Genome Sciences, Seattle, WA (URL: http://egp.gs.washington.edu)."; Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
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Schackwitz W.S., Sherwoo
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Varmeh-Ziaie S., Manfredi J.J.;
Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
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MEDLINE=21020092; PubMed=11139144;
MEDLINE=21020092 W UNIVERSITY OF THE PROPERTY OF
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European Bioinformatics Institute.
as long as its content is in no ....
                                                                                                                                                                                                                                                                                                                                                         IsoId=P30304-2; Sequence=VSP_000860;
SIMILARITY: Belongs to the MPI phosphatase family.
SIMILARITY: Contains 1 rhodanese domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FUNCTION: Functions as a dosage-dependent inducer in mitotic control. It is a tyrosine protein phosphatase required for progression of the cell cycle. It directly dephosphorylates CDC2 and activate its kinase activity. It also dephosphorylates CDX2 complex with cyclin E, in vitro.

CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Event=Alternative splicing; Named isoforms=2;
Name=1; Synonyms=CDC25A1;
IsoId=P30304-1; Sequence=Displayed;
Name=2; Synonyms=CDC25A2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tyrosine + phosphate.
ENZYME REGULATION: Stimulated
ALTERNATIVE PRODUCTS:
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                                                                                                                Swiss-Prot entry is copyright. It is produced through a collaboration sent the Swiss Institute of Bioinformatics and the EMBL outstation - Ruromean Bioinformatics There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Natl. Acad.
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Juyen C.P., Nguyen D.A., Poel C.L., Robertson
Sherwood J.K., Witrak L.A., Nickerson D.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PubMed=12477932; DOI=10.1073/pnas.242603899;
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PROSITE; PS50206; RHODANESE 3; 1.
PROSITE; PS50206; RHODANESE 3; 1.
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GO; GO:0000079; P:regulation of cyclin
InterPro; IPR000751; MPI Phosphatase.
InterPro; IPR001763; Rhodanese-like.
PANTHER; PTHR10828; MPI Phosphatase; 1.
Pfam; PF06617; M-inducer phosp; 1.
Pfam; PF00581; Rhodanese; 1.
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Ensembl; ENSG00000164045; Hc
HGNC; HGNC:1725; CDC25A.
H-InvDB; HIX0003280; -.
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PDB; 1C25; X
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AX137580; AAN11305.1; -; mRNA.
AF527417; AAM77917.1; -; Genomic_DNA.
277
                             10;
                                    Similarity
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ERSQEESPPGSTKRRKSMSGASPKESTNPE
              EDSVDSAPPGQRKKEQWYAGINPSDGINSE 30
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AAG41884.1;
                                                          AA;
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431
183
                                                          59087 MW;
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Pred. No. 60;
7; Mismatches
                                                                                                                                                                                                                                                             EPPHR ->
PAR -> QI
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/FTId=VSP_000860.
S -> F (in dbSNP:3731499)
                                                                                                                                                                                                                                                                                                                Rhodanese.
                                                                                                                                                                                                                                                                            FTId=VAR
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                                                          B2F6B792D4E6122B CRC64;
                                                                                                                                                                                                                                                             QLG (in Ref. 1).
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y; Polymorphism;
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306
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Q4W9J8_ASPFU PRELIMINARY;

AC Q4W9J8_ASSP-2005 (TrEMBLrel. 31,

DT 13-SEP-2005 (TREMBLREL. 31,

DR 13-SEP-2005 (TREMBLREL. 31,

DR 24-SEP-2005 (TREMBLREL. 31,

ACCUAL SEP-2005 (TREMBLREL. 31,

DR 25-SEQUENCE (TREMBLREL. 31,

DR 25-SEQUENCE (TREMBLREL. 31,

DR 26-SEP-2015 (TREMBLREL. 31,

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DR 26-SEQUENCE (TREMBLREL. 31,

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RA Arroya J., Berriman M., Abe K., Archer D.B., Bermejo C., Bennett J.,
RA Arroya J., Berriman M., Abe K., Archer D.B., Davies R., Dyer P.S.,
RA Bowyer P., Chen D., Collins M., Coulsen R., Davies R., Dyer P.S.,
RA Forman M., Fedorova N., Fedorova N., Feldblyum T.V., Fischer R.,
RA Goldman G.H., Gomi K., Griffith-Jones S., Gwilliam R., Haass B.,
RA Goldman G.H., Gomi K., Griffith-Jones S., Gwilliam R., Haas B.,
RA Kaller N., Khouri H., Kitamoto K., Kobayashi T., Kulkarni R.,
RA Kanagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,
RA Kanagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,
RA Kanagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,
RA Mouyna I., Mulligan S., Muller B.L., Mohamoud Y., Molina M., Monod M.,
RA Romoning I., Mulligan S., Maller B.L., Mohamoud Y., Molina M., Monod M.,
RA Renauld H., Robson G.D., Rodriguez C., Pritchard B.L., Quail M.A.,
RA Romning C.M., Rutter S., Salzberg S.L., Sanchez M.,
RA Romning C.M., Rutter S., Salzberg S.L., Sanchez M.,
RA Romning C.M., Rutter S., Salzberg S.L., Squares R., Squares S.,
RA Takeuchi M., Tekaia F., Turner G., Vazquez de Aldana C.R., Weldman J.,
RA Machida M., Hall N., Barrell B., Denning D.W.;
RT Aspergillus fumigatus.";
RT Aspergillus fumigatus.";
Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
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Best Local S
Matches 10
                                                             NUCLEOTIDE SEQUENCE.
Bevan M., Murphy G., I
Mayer K.F.X., Lemcke I
Submitted (MAY-1999)
                                                                                                                                                                                                                                              01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
Hypothetical protein F6G3.130 (Hypothetical protein AT4g30100).
Name=F6G3.130; Synonyms=AT4g30100;
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Fungi; Ascomycota;
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13-SEP-2005 (TrEMBLrel. 31, Last sequence upd
13-SEP-2005 (TrEMBLrel. 31, Last annotation u
13-SEP-2005 (TrEMBLrel. 31, Last annotation u
Calcium permease family membrane transporter.
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      NUCLEOTIDE SEQUENCE
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EMBL/GenBank/DDBJ whole genome shotgun (WGS)
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                                                             Ridley P., Hudson K., Schueller C.; to the EMBL/GenBa

    Created)
    Last sequence update)
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mitosporic Trichocomaceae; Asperg
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7; Mis
                                                                   EMBL/GenBank/DDBJ databases
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Pred. No. 1.4e+02;
                                                                                                                       Hudson S.,
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8A1C813C4CA1FEB5
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RESULT 1.
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ID QBG368;
AC QBG368;
O1-MAR-2003 (-MAR-2003 (-MAR-2007)
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T5 BRUAB
Q57FT5 BRUAB |
Q57FT5;
10-MAY-2005 ('
10-MAY-2005 ('
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Murphy G., Ridley P.,
Submitted (MAR-2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AL078464; CAB43845.1;
EMBL; AL161576; CAB81003.1;
PIR; T08986; T08986.
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EU Arabidopsis sequencing pusheitted (MAR-2000) to the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           J. Bacteriol. 187:2715-2726 (2005).
EMBL; AB017223; AAX73499.1; -; Genomic_D
Complete proteome; Hypothetical protein.
SEQUENCE 196 AA; 21701 MW; BAA4DFAIF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hypothetical protein. OrderedLocusNames=BruAb1_0082;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Halling S.M., Peterson-Burch B.D., Bricker B.J., Zuerner R.L., Qing Z., Li L.-L.; Kapur V., Alt D.P., Olsen S.C.; Olsen Comparison "Completion of the genome sequence of Brucella abortus and comparison to the highly similar genomes of Brucella melitensis and Brucella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=9-941 / Biovar 1;
PubMed=15805518; DOI=10.1128/JB.187.8.2715-2726.2005;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hypothetical protein. SEQUENCE 1311 AA;
                                              Brucella suis.
                                                                  OrderedLocusNames=BR0084;
                                                                                        Hypothetical protein
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Brucellaceae; Brucella.
                        Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8ui8.";
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co the EMBL/GenBank/DDBJ
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he EMBL/GenBank/DDBJ
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                          Alphaproteobacteria; Rhizobiales,
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Pred. No. 26
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2e+02;
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QBYELG BRU
ID QBYEL
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C STRAIN=16M / ATCC 23456 / Biotype 1;

C STRAIN=16M / ATCC 23456 / Biotype 1;

X PubMed=11756688; DOI=10.1073/pnas.221575398;

X DelVecchio V.G., Kapatral V., Redkar R.J., Patra G., Mujer C., Los DelVecchio V.G., Kapatral V., Redkar R.J., Patra G., Mujer C., Los DelVecchio V.G., Kapatral V., Redkar R.J., Patra G., Mujer C., Los Jablonski L., Larsen N., Souza M., Bernal A., Mazur M., Goltsman X. Jablonski L., Larsen N., Souza M., Bernal A., Mazur M., Goltsman Selkov E., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-J., "The genome sequence of the facultative intracellular pathogen "The genome sequence of the facultative intracellular pathogen Brucella melittensis.";

Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).

Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).

R EMBL; AB009620; AB453043.1; -; Genomic_DNA.

R PIR; AH3484, AH3484, AH3484,

R GO; GO:0008664; F:2'-5'-RNA ligase activity; IEA.

R GO; GO:0008664; P:RNA metabolism; IEA.

R GO; GO:0004175; P:RNA metabolism; IEA.

R GO; GO:0004175; 2 5 ligase; 2.

R TIGREPANS; TIGRO2258; 2 5 ligase; 1.
Best Local
Matches
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Best Local
                                                         Query Match
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GO; GO:0008664; F:2'-5'-RNA ligase activity; IEA.

GO; GO:0016070; P:RNA metabolism; IEA.

GO; GO:0116070; P:RNA metabolism; IEA.

InterPro; IPR004175; 2 5 ligase;

Piam; PF01834; 2 5 RNA ligase; 2.

TIGRPAMS; TIGR02258; 2 5 ligase; 1.

Complete proteome; Hypothetical protein.

Complete proteome; Hypothetical protein.

SEQUENCE 196 AA; 21701 MM; BAA4DFA1FD4010FA CRC64;
                                                                                                                   Complete
SEQUENCE
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01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
2'-5' RNA LIGASE (EC 6.5.1.-).
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EMBL; AE014291; AAN29040.1; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=29459;
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MEDLINE=22247741; PubMed=12271122; DOI=10.1073/pnas.192319099;
Paulisen I.T., Seshadri R., Nelson K.E., Eisen J.A., Heidelberg
Read T.D., Dodson R.J., Umayam L.A., Brinkac L.M., Beanan M.J.
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Similarity 9; Conserv
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   Conservative
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                                                                                                                   ΑĄ,
                                                                                                                   21731 MW;
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Pred. No. 27;
5; Mismatches
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                        Score 55;
Pred. No.
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   Mismatches
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                                                         DB 2;
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                                                         Length 196;
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                                                                                                                   CRC64;
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Q75DZ ASP
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Q8 NASADZ
Q9 NASADZ
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Matches
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                                                                 "The Ashbya gossypii genome as a Saccharomyces cerevisiae genome." Science 304:304-307(2004).
EMBL; AE016815; AAS50649.1; -; Ge
                                                                                                                                                                                                                                                                                                                                      Ashbya gossypii (Yeast) (Eremothecium gossypii).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Eremothecium.
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Q75DZ5;
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PROSITE; PS00498; TYROSINASE 2;
SEQUENCE 794 AA; 92042 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GO; GO:0016491; F:oxidoreductase activity; IEA.
GO; GO:0005344; F:oxygen transporter activity;
GO; GO:0008152; P:metabolism; IEA.
GO; GO:0006810; P:transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immesberger A., Burmester T.;
Submitted (FEB-2003) to the EME
EMBL; AJ547813; CAD68058.1; -;
HSSP; P04253; 10XY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ciona intestinalis.
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
Phlebobranchia; Cionidae; Ciona.
                                                                                                                                                          Dietrich F.S., Voegeli S., Brach
Mohr C., Poehlmann R., Luedi P.,
Gaffney T.D., Philippsen P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam; PF03723; Hemocyanin_C; 1. Pfam; PF00372; Hemocyanin_M; 1.
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Immesberger A., Burmester T.;
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01-MAR-2004
                       AGD; ABL122C; -.
GO; GO:0003676; F:nucleic acid
                                                                                                                                                                                                                         STRAIN=ATCC 10895;
PubMed=15001715; D
                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
                                                                                                                                                                                                                                                                                                                                                                                                               Name=ABL122C;
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InterPro; IPR005203; hemocyanin_
InterPro; IPR002227; Tyrosinase.
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nilarity 37.5%;
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oegeli S., Brachat S., Lerch A.,
nn R., Luedi P., Choi S., Wing R
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hemocyanin_C.
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Pred. No. 1.3e+02;
5; Mismatches 10;
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81683D936FC3BE6C CRC64;
                         binding; IEA
                                                                   Genomic_DNA.
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RESULT 15
Q6K9N4_ORYSA PRELIMINARY; PRT; 115 AA.
ID Q6K9N4;
AC Q6K9N4;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DH Hypothetical protein OJ1234_B11.21.
GN Name=OJ1234_B11.21;
GN Name=OJ1234_B11.21;
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Search completed: March 3, 2006, 13:26:15 Job time : 15.6035 secs
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                                                                                                                                          Query Match 31.0%; Score 54.5; I Best Local Similarity 41.4%; Pred. No. 17; Matches 12; Conservative 6; Mismatches
                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE.
Sasaki T., Matsumoto T., Yamamoto K.;
Sasaki T., Matsumoto T., Yamamoto K.;
Submitted (AUG-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AP004053; BAD21548.1; -; Genomic_DNA.
Gramene; Q6KSNN4; -.
Hypothetical protein.
SEQUENCE 115 AA; 12431 NW; ED9EF9A7B1B19A74 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SMART; SM00360; RRM; 1.
PROSITS; PS50102; RRM; 1.
Complete proteome;
SEQUENCE 1043 AA; 114750 MW; 9057046CF6897B49 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                  Oryza sativa (japonica cultivar-group).
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae,
Ehrhartoideae, Oryzeae, Oryza.
                                                                                                                                                                                                                                                                                                                                                               CBI_TaxID=39947;
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| : | | | : |: || : ::|| : :
528 DPMVGAPIGQTLQRQYLAGASQANGINNRTV 558
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                                                                      DB 2; Length 115;
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Colord Strong Sod Strike

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Maximum DB
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Perfect score:
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score greater than or equal to the score of the result being printed;
and is derived by analysis of the total score distribution.
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seq length: 2000000000
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Gapop 10.0 , Gapext 0.5
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176
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd
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/cgn2_6/ptcdata/1/1aa/6_COMB.pep:*
/cgn2_6/ptcdata/1/1aa/H_COMB.pep:*
/cgn2_6/ptcdata/1/1aa/PCTUS_COMB.pep:*
/cgn2_6/ptcdata/1/1aa/RE_COMB.pep:*
/cgn2_6/ptcdata/1/1aa/RE_COMB.pep:*
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616.473 Million cell updates/sec
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US-08-073-383-2

US-08-428-415-2

US-08-379-685-2

US-08-854-029-2

US-08-4854-029-2

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                       FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/828,85
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker; Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 6665
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPHONE: 847/938-2623
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                 COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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| 45                | 44                | 43                | 42                | 41                | 40                | 39                | 38                | 37               | 36                | 35                | 34               | 33                | 32              | 31               | 30               | 29               | 28   |  |
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| 49                | 49                | 49                | 49                | 49                | 49                | 49                | 49                | 49               | 49                | 49                | 49               | 49                | 49              | 49               | 50               | 50               | 50   |  |
| 27.8              | 27.8              |                   |                   | 27.8              | 27.8              |                   |                   | 27.8             |                   |                   | 27.8             |                   |                 |                  |                  | 28.4             | 28.4 |  |
| 492               | 492               | 492               | 487               | 487               | 487               | 487               | 472               | 453              | 381               | 381               | 381              | 307               | 284             | 143              | 695              | 695              | 106  |  |
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| US-08-464-247A-7  | US-08-123-659A-7  | US-08-462-859A-7  | US-08-464-248A-9  | US-08-464-247A-9  | US-08-123-659A-9  | US-08-462-859A-9  | US-09-301-593-30  | US-09-301-593-18 | US-09-632-575-52  | US-09-632-570-22  | US-09-216-295-22 | US-08-442-063A-48 | US-09-141-951-1 | US-09-301-593-26 | US-09-458-481B-5 | US-09-458-481B-4 | -09  |  |
| Sequence 7, Appli | Sequence 7, Appli | Sequence 7, Appli | Sequence 9, Appli | Sequence 9, Appli | Sequence 9, Appli | Sequence 9, Appli | Sequence 30, Appl | •                | Sequence 52, Appl | Sequence 22, Appl | •                | Sequence 48, Appl | , <sub>1</sub>  | , 2              | ) (r             | 4                | 105  |  |

ALIGNMENTS

## APPLICANT: KRATOCHYI APPLICANT: ROBERTS-R APPLICANT: RUSSELL, APPLICANT: STROUPE, TITLE OF INVENTION: TITLE OF INVENTION: TITLE OF INVENTION: NUMBER OF SEQUENCES: 49 CORRESPONDENCE ADDRESS: ADDRESSE: Abbott Laboratories STREET: 100 Abbott Park Road INFORMATION: Application US/09050516 HAYDEN, MARK HODES, STEVEN C. KLASS, MICHAEL R. KRATOCHVIL, JON D. KRATOCHVIL, JON D. KRATOCHVIL, JOH C. STROUPE, STEPHEN D. NVENTION: REAGENTS AN GRANADOS, GORDON, COHEN, MAURICE COLPITTS, TRACEY L FRIEDMAN, PAULA N. BILLING-MEDEL, PATRICIA JULIAN TRACT FOR DETECTING DISEASES OF THE GASTROINTESTINAL EDWARD N TRACEY L. AND METHODS USEFUL

08/828,855

6065.US.P1

SEQUENCE CHARACTERISTICS:

33 amino acids

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GENERAL INFORMATION:
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                                                                                                                  TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: 15
MOLECULE TYPE:
                                                                                                                                                                                         PRILICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTMARE: FRASUSEO for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLDITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 46:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
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al Similarity 100.0%;
33; Conservative 0
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                                                    LENGTH: 33 amino acids
TYPE: amino acid.
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 60064-3500
                                                                                                                                                                                 TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Application US/10278547
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          No. 6627414e
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Pred. No. 3.5e-18;
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TITLE OF INVENTION: REAGENTS.

TITLE OF INVENTION: FOR DETECTING DITTITLE OF INVENTION: TRACT

NUMBER OF SEQUENCES: 49

CORRESPONDENCE ADDRESS:

"""RESSEE: Abbott Laboratories
"""RESSEE: Abbott Laboratories
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Best Local (
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GENERAL INFORMATION:
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                                   Query Match
                                                                                                                                 INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
                                                                                                                                                                                          CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828
APPLICATION NUMBER: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT
APPLICANT
                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                MOLECULE TYPE: No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
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J. MacCil 97.2%;
Local Similarity 97.0%;
hes 32; Conservative
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                                                                                            TOPOLOGY: lir
                                                                                                                       TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
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STROUPE, STEPHEN D.
VVENTION
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
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                                                                                               linear
                                                                                                         single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 176; DB 2;
100.0%; Pred. No. 3.5e-18;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STEPHEN D.
REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                              08/828,855
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                                                                                                                                                                                                                                                                                                                                                                      US/09/050,516
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                                                                                                                                                                                                                                          6065.US.P1
                    Score 171; DB 2;
Pred. No. 1.6e-16;
                                   Length 215;
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          Indels
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           <u>,</u>
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157

EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE 189 EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE

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RESULT 4
US-10-278-547-47
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                                                                                                                                                     US-10-278-547-47
                                                                        Query Match
Best Local Similarity
Matches 32; Conserv
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                    TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <UNknown>
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: DOS
SOPTWARE: PASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BILLING-MEDEL,
                                                                                                                                                                                         TOPOLOGY: linear MOLECULE TYPE: No. 6660834e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 49
                                                                                                                                                                       SEQUENCE DESCRIPTION: SEQ ID NO:
157
  EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE 189
                            BDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Abbott Park
                                                                                                                                                                                                                             STRANDEDNESS: single
                                                                                                                                                                                                                                                    TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Abbott Laboratories
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                                                                                                                                                                                                                                                                  LENGTH: 215 amino acids
                                                                      97.2%;
ilarity 97.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
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HODGES, STEVE
                                                                            0
                                                                                            Score 171; DB 2;
Pred. No. 1.6e-16;
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                                                                            Mismatches
                                                                                                              Length 215,
                                                                              Indels
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RESULT 5

US-10-278-547-42

Sequence 42, Application patent No. 6660834
GENERAL INFORMATION:

Application US/10278547

APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE

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US-09-050-516-42
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                                                                                                                                                                ; TOPOLOGY: linear ; MOLECULE TYPE: No. 6627414e US-09-050-516-42
RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/^~
FILING DATE:
CLASSIPT**
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                                                                                                                  Query Match
Best Local S
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CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,85
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
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TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PPLICANT
                                                                                                                                                                                                                                                                                      TELEX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEB: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                                                            STRANDEDNESS:
                                                                                                                                                                                                                            TYPE: amino acid
                                                                                                                                                                                                                                                                                                        TELEFAX:
                                                                                                                                                                                                                                            LENGTH:
                                          621 EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE 653
                                                                     1 EDSVDSAPPGQRKKEQWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2, Application US/09050516 6627414
                                                                                                      Similarity 97.0
32; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Abbott Park
                                                                                                                                                                                                                                          679 amino acids
                                                                                                                                                                                                                                                                                                        847/938-2623
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RUSSELL, JOHN C.
STROUPE, STEPHEN D.
STROUPE, STEPHEN D.
WENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COHEN, MAUKICE COLPITTS, TRACEY L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FRIEDMAN, PAULA N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KRATOCHVIL, JON D.
                                                                                                                                                                                                             single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MARK
                                                                                                                   97.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                               08/828,855
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                                                                                                                     Score 171; DB 2; Length 679; Pred. No. 5.8e-16;
                                                                                                        Mismatches
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P1
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MULECULE TYPE: NO. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-278-547-42
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                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                          Sequence 8, Application US/09301593A Patent No. 6455677
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
APPLICANT: Park, John E.
APPLICANT: Garin-Chesa, Pilar
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
APPLICANT: Leger, Olivier
APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:

APPLICATION UNMBER: US/09/050,516

FILLING DATE: «UNKNOWN»

APPLICATION NUMBER: 08/828,855

FILLING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 6065.US.P1

TELEPHONE: 847/935-1729

TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: DOS
SOPTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF
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                                                                                                                                                                                                                                                                                                                          621
                                                                                                                                                                                                                                                                                                                                                                                                          32;
                                                                                                                                                                                                                                                                                                                                                                 EDSVDSAPPGORKKEOWYAGINPSDGINSEVLE 33
                                                                                                                                                                                                                                                                                                                          EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60064-3500
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GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                           97.2%;
                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                           Score 171; DB 2;
Pred. No. 5.8e-16;
                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 679;
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APPLICANT: Park, John E.
APPLICANT: Garin-Chesa, Pilar
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
APPLICANT: Saldanha, Jose W.
APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
CURRENT APPLICATION NUMBER: US/09/301,593A
CURRENT FILING DATE: 1999-04-30
EARLIER APPLICATION NUMBER: EP 98107925.4
EARLIER APPLICATION NUMBER: US 60/086,049
EARLIER APPLICATION DATE: 1998-05-18
NUMBER OF SEQ ID NOS: 108
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                                                                                                                                                                                                                                  RESULT 9
US-09-301-593-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; ORGANISM: Homo sapiens US-09-301-593-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-301-593-10
              GENERAL INFORMATION:
APPLICANT: Park, John B.
APPLICANT: Garin-Chesa, Pilar
APPLICANT: General Wee
APPLICANT: Leger, Olivier
APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: EAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Ver.
SEQ ID NO 10
LENGTH: 124
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 10, App. Patent No. 64556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                              Sequence 12, Application US/09301593A Patent No. 6455677
                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local :
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Best Local Similarity
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                                                                                                                                                                                            Patent No.
CURRENT APPLICATION NUMBER: US/09/301,593A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 124
                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                               41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       41 PGORL--EWIGGINPNNGI 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 PGQRKKEQWYAGINPSDGI 27
                                                                                                                                                                                                                                                                                                                                                                                          11; Conservative
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                                                                                                                                                                                                                                                                                                               PGORL--EWIGGINPNNGI 57
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                                                                                                                                                                                                                                                                                                                                                                                                          32.4%;
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                                                                                                                                                                                                                                                                                                                                                                                                            Score 57; DB
Pred. No. 1.5;
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; LENGTH: 124
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-301-593-12
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                                                                                                                                                                                                                                                          RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Homo sapiens
US-09-301-593-14
                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                 Sequence 16, Applica Patent No. 6455677 GENERAL INFORMATION:
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APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
CURRENT APPLICATION NUMBER: US/09/301,593A
CURRENT FILING DATE: 1999-04-29
EARLIER APPLICATION NUMBER: EP 98107925.4
EARLIER FILING DATE: 1998-04-30
EARLIER APPLICATION NUMBER: US 60/086,049
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EARLIER APPLICATION NUMBER: EP 98107925.4
EARLIER FILING DATE: 1998-04-30
EARLIER APPLICATION NUMBER: US 60/086,049
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                                              APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
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                                                                                                        APPLICANT: Park, John E.
APPLICANT: Garin-Chesa, Pi
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
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APPLICANT: Garin-Chesa, Pi
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
FILE REFERENCE: 0652.1890001
CURRENT APPLICATION NUMBER: US/09/301,593A
CURRENT FILING DATE: 1999-04-29
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LENGTH: 124
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APPLICANT: Rettig, Wolfgang J.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: PAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
CURRENT APPLICATION NUMBER: US/09/301,593A
CURRENT FILING DATE: 1999-04-29
EARLIER APPLICATION NUMBER: US/09/301,593A
EARLIER PILING DATE: 1998-04-30
EARLIER APPLICATION NUMBER: US/09/086,049
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EARLIER FILING DATE: 1998-05-18
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EARLIER FILING DATE: 1998-04-30
                              APPLICANT: Leger, Olivier
APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with
FILB REFERENCE: 0652.1890001
                                                                                                   APPLICANT: Park, John E.
APPLICANT: Garin-Chesa, Pilar
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
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APPLICANT: Garin-Chesa,
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ORGANISM: Homo sapiens
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APPLICATION NUMBER: US/09/301,593A FILING DATE: 1999-04-29
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; EARLIER FILING DATE: 1998-04-30; EARLIER FILING DATE: 1998-05-18; EARLIER FILING DATE: 1998-05-18; NUMBER OF SEQ ID NOS: 108; SOFTWARE: PATENTIN Ver. 2.0; SEQ ID NO 39; LENGTH: 124; TYPE: PRT; ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Park, John E.
APPLICANT: Garin-Chesa, Pilar
APPLICANT: Bamberger, Uwe
APPLICANT: Legar, Olivier
APPLICANT: Saldanha, Jose W.
APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
CURRENT APPLICATION NUMBER: US/09/301,593A
CURRENT FILING DATE: 1998-04-39
EARLIER APPLICATION NUMBER: EP 98107925.4
EARLIER APPLICATION NUMBER: US 60/086,049
EARLIER APPLICATION OUMBER: US 60/086,049
EARLIER FILING DATE: 1998-05-18
NUMBER OF SEQ ID NOS: 108
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US-09-301-593-41
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-301-593-40
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APPLICANT: Park, John E.
APPLICANT: Garin-Chesa, Pilar
APPLICANT: Bamberger, Uwe
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
APPLICANT: NUMNING: FAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
CURRENT APPLICATION NUMBER: US/99/301,593A
CURRENT FILING DATE: 1999-04-39
EARLIER APPLICATION NUMBER: EP 98107925.4
EARLIER FILING DATE: 1998-04-30
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Pred. No. 1.5;
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; LENGTH: 124
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-301-593-41
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EARLIER FILING DATE: 1998-05-18
NUMBER OF SEQ ID NOS: 108
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 41
                                                                                  Matches
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Best Local Similarity
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        score greater than or equal to the score and is derived by analysis of the total
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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Copyright (c) 1993 - 2006 Biocceleration Ltd.

    2006, 14:09:14; Search time 14.4956 Seconds
(without alignments)
    951.209 Million cell updates/sec

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US-09-301-593-10

US-09-301-593-12

US-09-301-593-14

US-09-301-593-16

US-09-301-593-39

US-09-301-593-39
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US-09-050-516-42
US-10-278-547-42
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US-10-425-115-244090
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US-10-278-547-46
US-10-646-873-46
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US-09-050-516-47
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Sequence 46, Appl
Sequence 47, Appl
Sequence 42, Appl
Sequence 42, Appl
Sequence 42, Appl
Sequence 24, Appl
Sequence 24, Appl
Sequence 33676, A
Sequence 24090,
Sequence 10, Appl
Sequence 11, Appl
Sequence 11, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 17, Appl
Sequence 19, Appl
Sequence 108, Appl
Sequence 11, Appl
Sequence 12, Appl
Sequence 12, Appl
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Sequence 13, Appl
Sequence 14, Appl
Sequence 14, Appl
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Sequence 14, Appl
Sequence 16, Appl
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US-09-050-516-46
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                                          APPLICATION NUMBER: US/09/050,516
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,855
APPLICATION NUMBER: 08/828,855
APPLICATION NUMBER: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION INF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: KLASS, MI
APPLICANT: KRATOCKVI
APPLICANT: ROBERTS-R
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                       ZIP: 60064-3500
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                      COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOCTWARE: PastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 49
CORRESSPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
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HODES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
NVENTION: REAGENTS AV
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COLDITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
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                46:
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US-10-389-223A-13
US-09-301-593-43
US-10-159-006-43
US-10-389-223A-4
US-10-389-223A-2
US-10-389-223A-2
US-10-380-438-3
US-10-380-438-3
US-10-380-438-3
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US-10-159-006-40
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US-10-159-006-12
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SEQUENCE CHARACTERISTICS:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-278-547-46
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Best Local Similarity
                                                                                                          TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
STRANDEDNESS: sir
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HODGES, STEVEN C.
KLASS, MICHABL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.Pl
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BILLING-MEDEL, PATRICIA
COHER, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
TOPOLOGY: linear MOLECULE TYPE: No. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 46:
                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          al Similarity 100.0%; al Similarity 100.0%; 33; Conservative 0
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                                                LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 60064-3500
                                                                                                                                                                   TELEFAX: 847/938-2623
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3: No. US20010010904Ale
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Pred. No. 7.6e-16;
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TOPOLOGY: linear

HOLECULE TYPE: NO. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-10-646-873-46
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Query Match 100.0%; Score 176; DB 4; Length 33; Best Local Similarity 100.0%; Pred. No. 7.6e-16; Matches 33; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                          TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 46:
                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: US/09/050,516
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Hecker Cheryl L.
NAME: Hecker Cheryl L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                    NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRAYOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
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                                                                                                                                                                                              LENGTH: 33 amino acids TYPE: amino acid
                                                                                                                                                                        STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: USA
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100.0%; Pred. No. 7.6e-16;
ative 0; Mismatches 0;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US 60/163,280
PRIOR FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 8564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 60/157,137 PRIOR FILING DATE: 1999-09-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
FILE REFERENCE: PA005P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn Ver. 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids NAME/KEY: MISC FEATURE LOCATION: (116)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DRGANISM: Homo sapiens
                                                                                                                  TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ID NO 4761
                                                                                                                                                                       APPLICANT:
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                                               STREET:
                                                                ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                      7, Application US/09050516
US20010010904A1
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                             Abbott Park
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application US/10106698 US20030109690A1
                                                 100 Abbott Park Road
                                                                                                                                                                ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                           COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                       BILLING-MEDEL,
                                                                                                                                                                                                                                                                                                                                                                   COHEN, MAURICE
                                                                                  ADDRESS
                                                                                                                                                                                                                                     S, STEVEN C.
, MICHAEL R.
                                                                                                                                                                                                                          CHVIL, JON D
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97.0%;
                                                                                                                                                                                                                                                                            MARK
                                                                                                                     TRACT
                                                                                                                                    POR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                             EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                       PATRICIA
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Pred. No. 1.4e-14;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/050,516 FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/10/278,547
FILING DATE: 23-Oct-2002
                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           157 EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino acid
                                                                                      COMPUTER: IBM Compatible
                                                                                                                                           ZIP: 60064-3500
                                                                                                                                                                                             CITY: Abbott Park
                                                                                                                                                                COUNTRY: USA
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
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97.0%;
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Score 171; DB 3; Length 215; Pred. No. 2.5e-14;

Mismatches

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CLASSIFICATION: <Unknown>

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Best Local Similarity
Watches 32; Conserve
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INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER: US/09/050,516
PILING DATE: <unknown-
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: <URKnown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                     ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
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MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 47:
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REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 EDSVDSAPPGORKKEOWYAGINPSDGINSEVLE 33
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                         CITY: Abbott Park
STATE: IL
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STRANDEDNESS: single
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TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
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KLASS, MICHAEL R.
KRATOCHVIL, JON D
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FOR DETECTING DISEASES OF THE GASTROINTESTINAL
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Best Local Similarity
                                                   CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/826
APPLICATION NUMBER: 08/826
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: ROBERTS-RA
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                          COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                      ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Abbott
STREET: 100 Abbott
CITY: Abbott Park
                                                                                                                                                                                                                        COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                            FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 847/935-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 215 amino acids
TYPE: amino acid
STRANDEDNESS: single
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
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RUSSELL, JOHN C.
STROUPE, STEPHEN D
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KRATOCHVIL, JON D.
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                                                                                                                                                                                                                                                                                                                                                                                            Abbott Laboratories
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                                                                                                                                                                                                                                                                                                                                                                           Park Road
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                                                                                                      08/828,855
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                    6065.US.P1
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Pred. No. 2.5e-14;
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RESULT 9
US-10-278-547-42
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                                     INFORMATION FOR SEQ ID NO: 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE:
                                                                                     PRIOR APPLICATION DATA:
APPLICATION UNMBER: US/09/050,516
FILING DATE: «UNKNOWN:
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: PASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: BILLING-MEDEL, PATRICIA COMEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     621 EDPVDSAPPGORKKEOWYAGINPSDGINSEVLE 653
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                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
                                                                           TELEFAX: 847/938-2623
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847/938-2623
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E: No. US20010010904Ale
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97.0%;
amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2:
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Pred. No. 8.2e-14;
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TOPOLOGY: linear

MOLECULE TYPE: NO. US20030082619Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-278-547-42
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US-10-646-873-42
SEQUENCE DESCRIPTION: SEQ ID NO: 42: US-10-646-873-42
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Best Local Similarity 97.0%;
                                                                                                       TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL.
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION UNMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT_IMPORMATION:
                                                 STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: No. US20040
                                                                                                                                                                                                                              NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTMARE: FRANCISCO FOR Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: single
                                                                                                                                                                                                             TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BILLING-MEDEL, PATRICIA COHEN, MAURICE
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Pred. No. 8.2e-14;
0; Mismatches 1
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RESULT 12
US-10-425-115-244090
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                                                                           ; OTHER INFORMATION: Clone ID: MRT4577_154194C.1.pep
US-10-425-115-244090
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                                                                                                                                                                                                                                             APPLICANT: Zhou, Yihuan APPLICANT: Zhou, Yihuan APPLICANT: Cao, Yongwei TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants FILE REFERENCE: 38-21(5322)B CURRENT APPLICATION NUMBER: US/10/425,115 CURRENT FILING DATE: 2003-04-28 NUMBER OF SEQ ID NOS: 369326 SEQ ID NO 244090 LENGTH: 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/10/029,386
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34288
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 33676
SEQ ID NO 33676
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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Best Local
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                     Best Local Similarity
                                           Query Match
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     Matches
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TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
FILE REFERENCE: AEOMICA-X-2
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: La Rosa, Thomas J. APPLICANT: Kovalic, David K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Penn, Sharron G. APPLICANT: Rank, David R. APPLICANT: Hanzel, David K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
OTHER INFORMATION: MAP TO AC004030.1
OTHER INFORMATION: EXPRESSED IN HELA,
                                                                                                                          NAME/KEY: unsure
LOCATION: (1)..(155)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                      FEATURE:
                                                                                                                                                                                                             ORGANISM: Zea mays
                                                                                                                                                                                                                                   TYPE: PRT
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Similarity 94.1%;
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     Conservative
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34.1%; Score 60; DB 4; Length 155; 61.1%; Pred. No. 7.5; ative 1; Mismatches 6; Indels
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; Pred. No. 0.00
0; Mismatches
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Pred. No. 8.2e-14;
0; Mismatches 1
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   Gaps
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US-09-301-593-10
                                                                                                                                                                                                                     ; ORGANISM: Homo sapiens
US-09-301-593-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-301-593-8
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APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
CURRENT APPLICATION NUMBER: US/09/301,593A
CURRENT FILING DATE: 1999-04-29
EARLIER APPLICATION NUMBER: EP 98107925.4
EARLIER APPLICATION NUMBER: US 60/086,049
EARLIER PILING DATE: 1998-04-30
EARLIER FILING DATE: 1998-05-18
NUMBER OF SEQ ID NOS: 108
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO SEQ ID NOS: 108
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                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 10, Application US/09301593A Publication No. US20020052480A1
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                                                                       Matches
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Best Local
                                                                                                            Best Local Similarity
                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Park, John B.

APPLICANT: Garin-Chesa, Pilar
APPLICANT: Bamberger, Uwe
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
APPLICANT: Saldanha, Jose W.
APPLICANT: Rettig, Wolfgang J.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
FILE REFERENCE: 0652.1890001
FILE REFERE
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APPLICANT: Garin-Chesa, Pilar
APPLICANT: Bamberger, Uwe
APPLICANT: Leger, Olivier
                                                                                                                                                                                                                                                                                                                                                                                          EARLIER APPLICATION NUMBER: US 60/086,049
EARLIER FILING DATE: 1998-05-18
NUMBER OF SEQ ID NOS: 108
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                        LENGTH: 12
TYPE: PRT
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ORGANISM: Homo
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41 PGQRL--EWIGGINPNNGI 57

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US-09-301-593-12
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US-09-301-593-12
US-09-301-593-12

J Sequence 12, Application US/09301593A
PADLICANT (Application US/09301593A)

APPLICANT: Barberger, Use
APPLICANT: Leger, Olivier
APPLICANT: Leger, Olivier
APPLICANT: Leger, Olivier
APPLICANT: Saidanna, Jose W.
APPLICANT: Saidanna, Jose W.
APPLICANT: Rettig, Wolfgang J.
TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility
FILE REFERENCE 0652.1890001
CURRENT PILLING DATE: 1999-04-29
CURRENT FILLING DATE: 1999-04-29
LEARLIER APPLICATION NUMBER: US 60/086,049
EARLIER APPL
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(Orden) Wildlife Social Co.

3

protein -

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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(without alignments)
420.009 Million cell updates/sec
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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US-10-087-099-11044
US-10-982-545-15
US-10-089-273-38
US-11-087-099-3875
US-11-087-099-4390
US-11-087-099-4390
US-11-087-099-4390
US-11-087-099-312
US-10-487-657-6312
US-10-487-657-6312
US-11-087-099-7589
US-11-087-099-7589
US-11-087-099-7553
US-11-087-099-7553
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e 11,44, A
e 11,42, Appl
e 38, Appl
e 10, Appl
e 10589, Ap
e 4390, Ap
e 4390, Ap
e 12, Appl
e 1219, Appl
  12, Appl
312, App
312, App
312, App
6312, App
642, Appli
642, Appli
6422, Ap
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6422, Ap
6422, Ap
6423, Ap
6423, Ap
6753, Ap
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CURRENT APPLICATION NUMBER: US/11/049,536

CURRENT FILING DATE: 2005-02-02

PRIOR APPLICATION NUMBER: US 10/916,840

PRIOR FILING DATE: 2004-08-12

PRIOR APPLICATION NUMBER: US 60/494,713

PRIOR PILING DATE: 2003-08-12

NUMBER OF SEG ID NOS: 721

SOFTWARE: PastSEQ for Windows Version 4.0

SEG ID NO 598
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US-11-087-099-11044
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APPLICANT: Wood, C
APPLICANT: Dransf
APPLICANT: Pieter
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Best Local S
Matches 11
Sequence 11044, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement FILE REFERENCE: 38-21 (53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
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Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Hufton, Simon E.
TITLE OF INVENTION: TIE COMPLEX BINDING PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 120
TYPE: PRT
ORGANISM: ARTIFICIAL SEQUENCE
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Antibody
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Pieters, Henk
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o. US20060024297A1
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US-10-134-563-16

7 US-10-134-563-16

5 US-10-453-972-1142

5 US-10-453-372-1132

7 US-11-087-099-8247

7 US-11-087-099-846

8 US-11-087-099-846

8 US-11-087-099-846

9 US-11-087-099-5974

9 US-11-087-099-5974

9 US-11-087-099-2822

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9 US-11-087-099-11797

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1 US-11-087-099-10907
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Pred. No. 4;
3; Mismatches
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Score

Match

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Minimum DB Maximum DB

Scoring table: Sequence: Title: Perfect score:

Sequence Sequence

Sequence Sequence

11797, A 4975, Ap 682, App 14, Appl 14, Appl 14, Appl 14, Appl

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Sequence Sequence Sequence

11142, Ap 1132, Ap 1132, Ap 1806, Ap 1806, Ap 1806, App 1846, App 1876, App 1876, App 1822, Ap 11797, A

Sequence

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5793, Ap 1396, Ap 16, Appl 2, Appli

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TYPE: PRT
; ORGANISM: Nicotiana plumbaginifolia
; ORGANISM: Nicotiana plumbaginifolia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-982-545-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 15
LENGTH: 770
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 11044
LENGTH: 356
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 60/558,896
PRIOR FILING DATE: 2004-04-02
PRIOR APPLICATION NUMBER: US 60/572,617
PRIOR FILING DATE: 2004-05-18
PRIOR APPLICATION NUMBER: US 60/586,503
PRIOR FILING DATE: 2004-07-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/982,545
CURRENT FILING DATE: 2004-11-06
PRIOR APPLICATION NUMBER: US 60/518,360
PRIOR FILING DATE: 2003-11-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR FILING DATE: 2004-07-08
NUMBER OF SEQ ID NOS: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: US 60/546,423
PRIOR FILING DATE: 2004-02-19
PRIOR APPLICATION NUMBER: US 60/547,250
PRIOR FILING DATE: 2004-02-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 60/526,753 PRIOR FILING DATE: 2003-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ciphergen Biosystems, Inc.
TITLE OF INVENTION: Biomarkers for Alzheimer's Disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 016866-011550US
                                                                                                                                                                                                                                                                                                                                                                                     PERATURE:
OTHER INFORMATION: Amyloid beta A4 precursor (APP, ABPP), isoform a, protease
OTHER INFORMATION: nexin II (PN-II), cerebral vascular amyloid peptide (CVAP),
OTHER INFORMATION: amyloid-beta protein, beta-amyloid peptide, A4 amyloid protein,
OTHER INFORMATION: Alzheimer's disease amyloid protein
                                                                                        LOCATION: (18)..(687)
OTHER INFORMATION: soluble
                                                                                                                                                                       LOCATION: (1)..(40)
OTHER INFORMATION: biomarker peptide 4320 Da (IMAC-Ni), A-beta 1-40
OTHER INFORMATION: peptide fragment of Amyloid beta A4 precursor
                                                                                                                                                                                                                                                                                          NAME/KEY: SIGNAL
LOCATION: (1)..(17)
OTHER INFORMATION: signal peptide
                     NAME/KEY: PEPTIDE
LOCATION: (18)..(671)
                                                                                                                                 NAME/KEY: PEPTIDE
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INFORMATION: soluble APP-beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        170 DIVDS-----HYKAYLYAGINIS-GINGEVM 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ch 27.8%;
l Similarity 51.6%;
l6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          McGuire, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Blennow, Kaj
Podust, Vladimir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Huw Alun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Anja Hviid
                                                                                        APP-alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 49; DB 7;
Pred. No. 16;
1; Mismatches
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APPLICANT: Basi, Guriq
APPLICANT: Saldanha, Jose
APPLICANT: Saldanha, Jose
TITLE OF INVENTION: HUMANIZED ANTIBODIES THAT RECOGNIZE
TITLE OF INVENTION: BETA-AMYLOID PEPTIDE
FILE REFERENCE: ELM-002CP
CURRENT APPLICATION NUMBER: US/10/789,273
CURRENT FILING DATE: 2004-02-27
PRIOR APPLICATION NUMBER: US/10/388,389
PRIOR FILING DATE: 2003-03-12
PRIOR FILING DATE: 2001-12-06
PRIOR FILING DATE: 2001-12-06
PRIOR FILING DATE: 2001-12-06
PRIOR FILING DATE: 2001-12-06
PRIOR FILING DATE: 2000-12-06
NUMBER OF SEQ ID NOS: 63
SOFTWARE: FASESEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; LOCATION: (740)..(770); OTHER INFORMATION: C31
US-10-982-545-15
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                                                                                                                                                                                                                                                                                                                                                                  Sequence 38, Application US/10789273
Publication No. US20050249725A1
                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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LOCATION: (714)..(770)
OTHER INFORMATION: Gamma-CTF(57)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: PEPTIDE
LOCATION: (712)...(770)
OTHER INFORMATION: Gamma-CTF(59)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: PEPTIDE
LOCATION: (688)..(711)
OTHER INFORMATION: P3(40)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: PEPTIDE LOCATION: (688)..(713) OTHER INFORMATION: P3 (42)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (672)...(711)
LOCATION: (672)...(711)
OTHER INFORMATION: beta A4 precursor, beta-amyloid protein 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: (721)..(770)
OTHER INFORMATION: gamma-CTF(50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PEATURE: PEPTIDE
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LOCATION: (688)..(770)
OTHER INFORMATION: C83
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NAME/KEY: PEPTIDE
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OTHER INFORMATION: beta-amyloid protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: PEPTIDE LOCATION: (672)..
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
es 11; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           194 DNVDSADAEEDDSDVWWGGADTDYADGSEDKVVE 227
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27.8%; ilarity 32.4%; Conservative
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ION: C99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 49; DB Pred. No. 34; B; Mismatches
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/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-789-273-38
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Best Local Similarity 32.4
Matches 11; Conservative
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Publication No. US20050255108A1
GENERAL INFORMATION:
                                                                                                        Query Match
                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 10:
                                                                    / Match 27.3%;
Local Similarity 55.6%;
les 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winderin (Genentech)

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Thomas, G. Roger
Gross, Cordell E.
TITLE OF INVENTION: ANTI-CD18 ANTIBODIES IN STROKE
NUMBER OF SEQUENCES: 15
                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                    NAME: Evans, David W.
REGISTRATION NUMBER: NONE
REFERENCE/DOCKET NUMBER: P1729C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-1739
TELEFAX: 650/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Bednar, Martin M.
                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                             SEQUENCE DESCRIPTION: SEQ ID NO: 10:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              194 DNVDSADAEEDDSDVWWGGADTDYADGSEDKVVE 227
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/11/025,712 FILING DATE: 28-Dec-2004 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: South San F. STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 1 DNA Way
                                    PGQRKKEQWYAGINPSDG 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/10/404,286 FILING DATE: 31-Mar-2003 APPLICATION NUMBER: 09/811384 FILING DATE: 20-DEC-2000 APPLICATION NUMBER: 09/251652
   PG--KGLEWVAGINPKNG 56
                                                                                                                                                                                                TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/093038 FILING DATE: 23-JAN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 17-FEB-2000
APPLICATION NUMBER: 08/788800
FILING DATE: 22-JAN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 94080
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Pred. No.
                                                                                       Score 48; DB 7; Length 232; Pred. No. 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                        Mismatches
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                                                                      4; Indels
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                                                                        2; Gaps
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US-11-087-099-3875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Lupinus angustifolius US-11-087-099-3875
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                                                    ; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4390
LENGTH: 356
; TYPE: PRT
; ORGANISM: Hevea brasiliensis
US-11-087-099-4390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-087-099-10589
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APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 10589, Application US/11087099

Publication No. US20060041961A1

GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B BE
CURRENT APPLICATION NUMBER: US/11/087,099

CURRENT FILING DATE: 2005-03-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 3875
LENGTH: 315
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 10589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450) B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
                                                                                                                                                                                                                                                                              Sequence 4390, Application US/11087099 Publication No. US20060041961A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 27.3%;
Best Local Similarity 51.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 27.3%;
Best Local Similarity 51.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Lupinus luteus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                               170 DIVDS-----HYKACLYAGINIS-GINAEVM 194
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   27.3%;
51.6%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 48; DB 7;
Pred. No. 22;
 Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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. 22;
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19;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 353;
                   Length 356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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RESULT 9
US-11-025-712-12
   US-10-821-234-1219
Sequence 1219, Application US/10821234
Publication No. US20050255114A1
GENERAL INFORMATION:
                                                                            RESULT 10
                                                                                                                                                                                                                                                                                       US-11-025-712-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 12, Application US/11025712
Publication No. US20050255108A1
GENERAL INFORMATION:
                                                                                                                                                                                                                           Query Match
Best Local Similarity
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                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 12: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/10/404,286
RILING DATE: 31-Mar-2003
APPLICATION NUMBER: 09/811384
FILING DATE: 20-DEC-2000
APPLICATION NUMBER: 09/251652
FILING DATE: 17-FBB-2000
APPLICATION NUMBER: 08/788800
PILING DATE: 22-JAN-1997
APPLICATION NUMBER: 60/093038
FILING DATE: 23-JAN-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOPTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb :
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                    SEQUENCE DESCRIPTION: SEQ ID NO: 12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Thomas, G. Roger
Gross, Cordell E.
TITLE OF INVENTION: ANTI-CD18 ANTIBODIES IN STROKE
NUMBER OF SEQUENCES: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Bednar, Martin M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               170
                                                                                                                                    41
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                                                                                                                                                                   PGQRKKEQWYAGINPSDG 26
                                                                                                                                    PG--KGLEWVAGINPKNG 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Evans, David W.
REGISTRATION NUMBER: NONE
REFERENCE/DOCKET NUMBER: P1729C2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: <Unknown>
R APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/11/025,712 FILING DATE: 28-Dec-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 1 DNA Way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DVVDS-----HYKSCLYAGINIS-GINGEVM 194
                                                                                                                                                                                                                                                                                                                                       TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 94080
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                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: 650/225-1739
TELEFAX: 650/952-9881
                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Genentech, Inc
                                                                                                                                                                                                                             27.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inch, 1.44 Mb floppy disk
                                                                                                                                                                                                                             Score 48;
Pred. No.
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RESULT 12
US-10-467-657-6312
, Sequence 6312, Application US/10467657
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                                                                                                                                                                                                                                                ; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(33)
US-10-517-939-312
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; ORGANISM: Homo sapiens
US-10-821-234-1219
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SOFTWARE: pt SEQ_genes Version 1.0
SEQ ID NO 1219
LENGTH: 1133
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                                                                                                                                                                       Best Local Similarity Matches 9; Conserv
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TITLE OF INVENTION: XYLANASES, NUCLEIC ACIDS ENCODING THEM
TITLE OF INVENTION: AND METHODS FOR MAKING AND USING THEM
FILE REFERENCE: 564462007901
CURRENT APPLICATION NUMBER: US/10/517,939
CURRENT FILING DATE: 2004-12-13
PRIOR APPLICATION NUMBER: PCT/US03/19153
PRIOR PILING DATE: 2003-06-16
PRIOR APPLICATION NUMBER: 60/389,299
PRIOR APPLICATION NUMBER: 60/389,299
                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 200 NUMBER OF SEQ ID NOS:
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CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
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TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                FEATURE: OTHER INFORMATION: Obtained from an environmental sample.
                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 1323
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                                                                                                                                  2 DSVDSAPPGQRKKEQWYAGINP---SDGINSEVL 32
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Healey, Shaun
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26.5%;
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Pred. No. 79;
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Pred. No. 92;
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TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(5)450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 7589
LENGTH: 356
                                                                                                                                                                                                                                                      Sequence 166, Application US/10485517 Publication No. US20050256299A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
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Best Local Similarity
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SEQ ID NO 6312
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NUMBER OF SEQ ID NOS: 9218
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CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
                                                                       APPLICANT: Mond, James
TITLE OF INVENTION: Antigenic Polypeptides
FILE REFERENCE: P100629WO
CURRENT APPLICATION NUMBER: US/10/485,517
CURRENT FILING DATE: 2004-02-02
PRIOR APPLICATION NUMBER: GB 0118825.9 PRIOR PILING DATE: 2001-08-02 PRIOR APPLICATION NUMBER: GB 0200349.9 PRIOR FILING DATE: 2002-01-09
                                                                                                                                                                                              APPLICANT: University of Sheffield APPLICANT: Biosynexus Incorporated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Neisseria gonorrhoeae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PPLICANT: CHIRON SPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JICANT: MONACI Elisabetts
JE OF INVENTION; GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
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MASIGNANI Vega
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iilarity 51.6%;
Conservative
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Pred. No. 30;
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Pred. No. 16;
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RESULT 15
US-11-171-701-6
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                                                                                                                 ; LENGTH: 988
; TYPB: PRT
; ORGANISM: Aspergillus fumigatus
US-11-171-701-6
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Best Local Similarity 54.5
Matches 12; Conservative
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 166
LENGTH: 375
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 6, Application US/11171701 Publication No. US20060008879A1
                                                                                     Query Match
                                                                                                                                                                              SEQ ID NO 6
                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION
                                                                                                                                                                                                                                                   FILE REFERENCE: 10655,200-US
CURRENT APPLICATION NUMBER: US/11/171,701
CURRENT FILING DATE: 2005-06-29
                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/585,336
PRIOR FILING DATE: 2005-06-29
NUMBER OF SEQ ID NOS: 26
                                                                                                                                                                                               SOFTWARE: PatentIn version 3.2
                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Otani,
                                                                                                                                                                                                                                                                                                  ITLE OF INVENTION: Polypeptides Having Alpha-Glucosidase Activity And ITLE OF INVENTION: Polynucleotides Encoding Same
                                                                         Local Similarity
 807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71 KDEKSGAQVGPNFEGINSEVLE 92
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                               2 DSVDSAPPGQRKKEQWY----AGINPSDGINSEV 31
 DIVKGVFPGVGKGEVWYDWYTQTAVDAKPGVNATI 841
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Ge, Haiyan
                                                            Conservative
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Pred. No. 95;
6; Mismatches
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Pred. No. 37;
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Search completed: March 3, 2006, 14:19:05 Job time: 1.57143 secs

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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Listing
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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AAE07324
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AAW79677
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ADX97562
ADG14341
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                                                                                                                                                                                       Aaw79681
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               Adn171
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                                                                                                                                Ada26379
                                                        CS198 pro
Pancreati
Human NC2
Human pro
Human gen
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Human CS
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CS198 pro
CS198 pep
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                                                                                                                                              SS 1
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AAW79681
 Billing-Medel PA, Lungardon EN, Hayden M, Ho
                                                                                                                                                                                                                                                                                                                                                                                                                                   11-JAN-1999
                                                                                                                                                                                        31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                 AAW79681;
                                                                         Claim
                                                                                                                                                                                                         30-MAR-1998;
                                                                                                                                                                                                                         08-OCT-1998
                                                                                                                                                                                                                                        WO9844159-A1
                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                         pancreatitis.
                                                                                                                         WPI; 1998-542714/46.
                                                                                                                                                                        (ABBO ) ABBOTT LAB
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| 114.5   | 118      | 118      | 124       |          | 127.5    |          |          | 27.      | 27.      |          | 127.5        | 27.      | 27.      | •         | 146      | 146      | 146               | 146                | 171                | 171                |
|---|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|--------------|----------|----------|-----------|----------|----------|-------------------|--------------------|--------------------|--------------------|
| 10.1  | 10.4     | •        | 11.0      | 11.3     | 11.3     | 11.3     | 11.3     | 11.3     | 11.3     | 11.3     | 11.3         | 11.3     | 11.3     | 11.3      | 12.9     |          |                   |                    | 15.1               | 15.1               |
| 324   | 1090     | 917      | 948       | 1103     | 1103     | 1103     | 1103     | 1103     | 1103     | 1103     | 1103         | 1103     | 913      | 910       | 31       | 31       | 31                | 31                 | 33                 | 33                 |
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| ABGUGGG   | ADY14900 | ABP75463 | ADA55374  | ADY18598 | ADY14898 | ADP23408 | ADP23410 | ADP55745 | ADP54378 | ADJ75352 | ADJ75439     | ADD45973 | ADJ70212 | ABM85635  | ADN17174 | ADA26381 | AAE07321          | AAW79678           | ADN17176           | ADA26383           |
| TO COLOR TO | PRO po   | 463 Hum  | 5374 Huma | PRO po   | _        | PRO      | PRO      | Huma     | Human    |          | 75439 Marker | Human    | Human    | 535 Human | CS198    |          | Aae07321 Human CS | Aaw79678 Synthetic | Adn17176 CS198 pep | Ada26383 Synthetic |

## ALIGNMENTS

Minimum DB Maximum DB

Database

Searched:

Scoring table: sequence: Perfect score:

Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis; Human CS198 protein C-terminal. AAW79681 standard; protein; 215 AA (first entry) 98WO-US006251

97US-00828855

Result No.

Query

100.0

M, Colpitts TL, Hodges SC, Klass JC, Stroupe SD; ₹, Friedman PN, man PN, Gordon
Kratochvil JD;

New gastrointestinal polynucleotides, CS198, and their detection - us for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis. used

26; Page 103; 127pp; English.

100.0 100.0

This sequence represents the C-terminal of the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's ossophagus, gastric ulcer, gastritis, leiomyoma, polyps, cancer, Barret's
Crohn's disease, oesophagus, ulcerative

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                                                                                                          WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                        contacting
                                           Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, con
                                                                                                                                                                          Billingel PA
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-AUG-2001
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                                                                                                                                                                                                                                                                              (KRAT/)
                                                                                                                                                                                                                                                                                                                                           (GORD/)
(GRAN/)
(HAYD/)
(HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                            (BILL/)
(COHE/)
(COLP/)
(FRIE/)
                                                                                                                                                                                                                                                                                                                        KLAS/)
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                                                                                                                                                                                                                                  GRANADOS E N.
HAYDEN M.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COHEN
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                                                                                                                                                                                       PA,
                          test
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ilarity 100.0%;
Conservative (
                                                                                                                                                    , Cohen M,
Hayden M,
L, Russell
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                        sample with
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                                                                                                                                                  Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                            at
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Pred. No. 2.8e-108;
                            least
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                          one
                                                                                                                                                                                             Friedman
                          ္သ
                   crointestinal tract, comprises 198-specific polynucleotide.
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                                                                                                                                                                        PN, Gordon
Kratochvil;
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The invention relates to a method of detecting the presence of a target CC CS 198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CC The CS 198 polynucleotides, polypeptides and antibodies are useful for CC treating, diagnosing, staging, monitoring, prognosticating, preventing, CC treating or determining predisposition to diseases and conditions of the CC quicerative colitis, pancreatitis and Barret's oscophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic CC immunoassays, as components or as target sites for various therapies. CC Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used CC with generation of chimeric antibodies for therapeutic use. The CS 198 polymentic is also useful in gene therapy and drug screening. The CC method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is C-terminal portion of human CS 198 polypeptide
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Best Local
                                                                                                                                                                                                                                                  cancer prognosticating; cancer p
gastrointestinal tract disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 215 AA;
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                                                   31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                  CS198; cancer diagnosis; cancer staging; cancer prognosticating; cancer prevention;
                                                                                                                                                                                                                                                                                                                        Synthetic peptide based on CS198 protein
                                                                                                      23-OCT-2002; 2002US-00278547
                                                                                                                                             01-MAY-2003.
                                                                                                                                                                              US2003082619-A1.
                                                                                                                                                                                                                                                                                                                                                           20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                               ADA26384 standard; protein;
 (BILL/) BILLINGEL P
(COHE/) COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
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ilarity 100.0%;
Conservative 0
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                                                     97US-00828855.
98US-00050516.
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Pred. No. 2.8e-108;
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                                                                                                                                                                                                                                                                      cancer;
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RESULT 4
ADN17177
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AC ADN1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least S04 identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognostiating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198
                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
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Roberts-Rapp
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 52;
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(KLAS/)
(KRAT/)
              CS198 protein
                                        17-JUN-2004
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                                                                                            ADN17177 standard; protein; 215
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215; Conserv
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GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S.
KLASS M R.
KRATOCHVIL J E
ROBERTS-RAPP I
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STROUPE S D.
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                                                                                                                                                                                                                                                                                     VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
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                                                                                                                                                              DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
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                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , Cohen M,
Hayden MA,
L, Russell
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                                        (first
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                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
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Hodges SC,
L JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                0,
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Pred. No. 2.8e-108;
Mismatches 0;
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Klass MR,
SD;
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Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                         Length
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Best Local S
Matches 215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gastrointestinal tract;
                                                                                                                                                                                                                                                                                                                                                                                                      Diagnosing diseases such as cancer of the detecting aberrant expression or activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-AUG-2003; 2003US-00646873.
                                                                                                                                                                                                                               Sequence 215
                                                                                                                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                                                                                             associated treatment methods.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BILL/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (KTAS/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (FRIB/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-MAR-1998;
                                                                                                                                                                                                                                                     invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RRAT/
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                      181
                                             121
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181
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                                                                                                                                                                                  215;
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COLPITTS T L.
COLPITTS T L.
FRIEDMAN P N.
GORDON J.
GRANDOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RUSSELL J C.
STROUPE S D.
                                                                                                                                                           μ
                                                                                                                                                                                             Similarity:
             DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                         NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                         VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                      VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                      MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                             NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGORKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                       SEQ
                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                              , Cohen M,
Hayden MA,
L, Russell
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                                                                                                                                                                                                                                                                                                                                                                     ID NO 47; 67pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-00828855.
98US-00050516.
                                                                                                                                                                                 100.0%; Score 1132; DB 8; 100.0%; Pred. No. 2.8e-108; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GI tract; CS198; cancer; gene therapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Colpitts TL,
Hodges SC,
                                                                                                                                                                                                                                                                                                                                                                       English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Friedman
                                                                                                                                                                                                                                                                                                                                                                                                        gastrointestinal tract, of the CS198 polypeptid
                       215
  215
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Kratochvil
                                                                                                                                                                                                          Length
                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                        polypeptide,
                                                                                                                                                                                                            215;
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RESULT, 5

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Best Local Similarity
                                                                                                                                                                                                                    Matches 215;
                                                                                                                                                                                                                                                                                                            This sequence represents the human CS198 protein which is used in a method to detect the presence of a target CS198 polymucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative colitis, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                        Sequence 679
                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                              New gastrointestinal polymucleotides, CS198, and their detection - us for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1998-542714/46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roberts-Rapp L,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Billing-Medel PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human CS198 protein
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645
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                         181
                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                    26;
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                                                                                                                                                                                         μ
                                                                                                                                                                              MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRFLRFRAPDEPQQAQVPH
                          DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                     NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                            VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                              MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                     NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                          VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 100-102; 127pp; English.
                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                        AA;
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L, Russell JC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00828855
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en M, Hodges SC, Klass
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                                                                                                                                                                                                                                 100.0%;
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                                                                                                                                                                                                                   0
                                                                                                                                                                                                                               Score 1132; DB 2;
Pred. No. 1.4e-107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stroupe SD;
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                                                                                                                                                                                                                    Mismatches
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                         215
679
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                                                                                                                                                                                                                                             Length
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                                                                                                                                                                                                                                             679;
                                                                                                                                                                                                                   0;
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                                                                               180
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                                                                                                                                                                524
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RESULT 6 AAE07319

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The invention relates to a method of detecting the presence of a target CC CS 198 polynucleotide comprising contacting the test sample with at least CC one CS 198-specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CC rhe CS 198 polynucleotides, polypeptides and antibodies are useful for CC detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the CC ulcerative colitie, pancreatitis and Barret's ossophagus. The CS 198 polypeptides are useful as or as target sites for various therapies. CC untribodies directed against at least one epitope contained within these CC polynucleotides are useful as delivery agents for therapeutic agents, in CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used CC for the generation of chimeric antibodies for therapeutic use. The CS 198 cpolynucleotide is also useful in cane rherapy and drive creative. The CS 198 contained is also useful in cane rherapeutic use. The CS 198 contained is also useful in cane rherapeutic use. The CS 198 contained is also useful in cane rherapeutic use. The CS 198 contained is also useful in cane rherapeutic use. The CS 198 contained is also useful in cane rherapeutic use. The CS 198 contained is also useful in cane rherapeutic use.
polynucleotide is also useful in gene therapy and drug screening. method of the invention provides an alternative, non-surgical diagmethod capable of detecting early stage GI tract disease such as The present sequence is human CS 198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                       Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, co-contacting test sample with at least one CS 198-specific polynucle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (COLP/)
(FRIE/)
(GORD/)
(GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                          Claim 17; Page 49-51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (KRAT/)
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(HODG/)
(KLAS/)
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DB; AAD13637.
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HODGES S C.
KLASS M R.
KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
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GRANADOS E N.
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Hayden M,
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Hodges SC, Klass MR,
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Kratochvil JD;
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Best Local Similarity
Matches 215; Conserv
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27-APR-2000;
20-JUN-2000;
19-JUL-2000;
01-SEP-2000;
                                                                                                                                                                                                                                                                                                                                             Human; cytokine; cell proliferation; cell differentiation; gene th vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                   Human protein SEQ ID NO 1252.
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The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce
                                                                                                                                                                                                                                                                              09-AUG-2001
                                                                                                                                                                                                                                                                                                WO200157190-A2
                                                       Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
                                                                                    WPI, 2001-476283/51.
N-PSDB, AAK51723.
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                                      Claim
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                                      Page 3512-3514; 6221pp;
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2000US-00598075.
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Wejhrman
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Pred. No. 1.
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JJ, Zhang
Goodrich R
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Best Local Similarity 100.0%;
Matches 215; Conservative 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activin/inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the sequence listing were missing at the time of publication
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                                                                                                                                                                                                                                                                                                                                   gastrointestinal tract
                                                                                                                                                                                                                                                                                                                                               CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer;
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                                                                                                                                                                                          31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                         Synthetic;
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         COHEN M.
COLPITTS T L.
GRANDAN P N.
GGRDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J D
ROBERTS-RAPP I.
STROUPE S D.
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D; Mismatches 0;
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Granados EN,
Roberts-Rapp L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the predicted amino acid sequence of the human CS198 protein derived from the CS198 consensus sequence shown in seq id 27.
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98US-00050516
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Hodges SC,
JC, Stroupe
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Mismatches 0;
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Klass MR,
SD;
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Kratochvil
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       ADX97562
ID ADX977
XX ADX97
XX ADX97
XX ADX97
XX 21-AF
CT 21-AF
CX XX PANCY
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Homo sapiens

pancreas tumor; cytostatic.

21-APR-2005 Pancreatic

associated

human

protein,

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(first entry)

ADX97562 standard;

protein;

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                                                                                                                                                                                                                                                                         The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polymucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (BILL/)
(COHE/)
(COHE/)
(FRIE/)
(GRD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
(ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                            Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, associated treatment methods.
                                                                                                                                                                                                                                          Sequence 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                         Claim 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENBANK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-313754/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Roberts-Rapp
                                                                                                                                                                                                         Local
 645
                       181
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                                                                                                                                               465
                                                                                                                                                                                             215;
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                                                                                                                                                           1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
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RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COLPITTS T L.
FRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
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                                                                                                                                                                                                         Similarity
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                                                                      NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 180
                                                                                                                                            MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRMEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                              D87440.
                                                                                                                     VWGWEVAGAPALRIQKSQSSDLIERERESVIRREQEVAEERRNALFPEVFSPTPDENSDQ 120
DGINSEVLEAIRVTRHKNAMAERWESRIYASBEDD
                         DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                            UMGWEYAGAPALRLQKSQSSDLLERERESVLRREQEVABERRNALFPEVFSPTPDENSDQ
                                                NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTV
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Hayden
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Hodges SC,
JC, Stroupe
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                                                                                                                                                                                                        Score 1132; DB 8;
Pred. No. 1.4e-107;
                                                                                                                                                                                              Mismatches
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SD;
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Kratochvil JD
                                                                                                                                                                                                                    Length
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                                                                                                                                                                                                                                                                                                                                                      treatment of pancreatic cancer, using a substance that inhibits or binds to the protein or its DNA, including: an antisense oligonucleotide, short interfering RNA or ribozyme directed against the pancreatic protein, an organic molecule, particularly having a molecular weight below 5000, concertably 300, that binds to the pancreatic DNA, an aptamer or (monoclonal) antibody, preferably human or humanized, that binds to the pancreatic DNA, or an anti-idiotypic antibody raised against the garcup, cytotoxic compound, immunostimulant and/or radioisotope. The novel thuman pancreatic proteins and their encoding DNA have cytostatic activity. The novel sequences are useful for inhibiting transcription and/or expression of genes and proteins associated with pancreatic cancer. This sequence represents one of the novel human pancreatic proteins of the invention. Note: This sequence is not shown in the specification, it has been electronically downloaded from a DVD-rom and their pancreations.
                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acid differentially expressed use as diagnostic agents and in screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-768082/76
N-PSDB; ADX97491.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-OCT-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pancreas and its encoded protein. The invention further comprises: proteins and peptides, preferably isolated, that contain a sequenc encoded by the novel nucleic acid; and methods for diagnosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rosenthal A,
                                                                                                                                                                                                                                                                                                             Sequence 692 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a novel human nucleic acid sequence of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ROSE/)
                                                                                                                                                                                                                                                                                                                                            provided with this
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658
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SPECHT T.
LICHTNER R.
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PILARSKY C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 110; 28pp;
                                                                                                                                         VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTFDENSDQ
                   DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                                                         VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVABERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                       MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                             NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTV
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Staub E, Roepcke S,
                                                                                                                                                                                                                                                                                                                                              specification by the European
                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                Score 1132; DB 8;
Pred. No. 1.5e-107;
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                                                                                                                                                                                                                                                    Mismatches
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Li X;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in pancreatic tumor tissue, for therapeutic agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 that contain a sequence
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                                                                                                                                                                                                                                                                                                                                                 Patent
                                                                                                                                                                                                                                                                              Length
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                              and pancreas. The coding sequences are also useful as spontaneous proliferation models of pancreas beta-cells. The novel genes NC1, NC2 NC3 were isolated from the pancreas of PHHI patients, which were used testing for the detection of proliferative insulin-producing cells or
                                                                                                                                                                                                                                                                                                                                                                                                                                                coding sequences (ADG14340-ADG14345). The coding sequences are useful for detecting and screening proliferative insulin-producing cells as well as differentiation and proliferation of such cells and their precursors as analogous cells in treatment of e.g. PHHI and diseases due to differentiation/proliferation abnormality, diseases of the nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to human NC1, NC2 and NC3 proteins and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; SEQ ID NO 2; 34pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI) patient-expressed genes for detecting and screening e.g. proliferative insulin-producing cells in treatment of PHHI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-MAR-2003; 2003WO-JP002620
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                                                                                                                                                                                                                                                                                                                               Sequence 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  patient-expressed genes insulin-producing cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-MAR-2002; 2002JP-00071592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                pancreas beta-cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (KANF )
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             181 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                              121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                             525 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVABERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                               465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                 214;
                                                                                                                                                61 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTFDENSDQ
                                                                                                                                                                                                                  1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
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                                                           NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKDQWYAGINPS
                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NC3; PHHI; pancreas beta-cell; insulin; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                  by Northern analysis.
                                                                                                                                                                                                                                                                                99.7%;
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                                                                                                                                                                                                                                                                 Score 1129; DB 7;
Pred. No. 2.9e-107;
1; Mismatches 0;
679
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RESULT 12 AAM79574 ID AAM79 XX

AAM79574 standard; protein;

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Query Match
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27-APR-2000;
20-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78123-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activity, inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the sequence listing were missing at the time of publication
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                                                                                                                                                                                                                                                                                                                                                                              Sequence 672 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-476283/51.
N-PSDB; AAK52707.
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15-SEP-2000;
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Y, Zhao QA,
AJ, Yang Y,
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                                                                                                                                                                                                                                                                                                          Similarity
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                          NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
NSRSSSQASGTTGSYSVSBSPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGIDPS
                                                                                         VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                            VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                      MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 288; 6221pp; English.
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2000US-00560875.

); 2000US-00598075.

); 2000US-00620325.

); 2000US-00634936.

); 2000US-0063325.

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); 2000US-00728422.
                                                                                                                                                                                                                                                                                    Conservative
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Wejhrman T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Drmanac RT,
Wang D, Wang
                                                                                                                                                                                                                                                                                                        99.5%;
                                                                                                                                                                                                                                                                                  1;
                                                                                                                                                                                                                                                                                                        Score 1127; DB 4;
Pred. No. 4.6e-107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Asundi V, Zhou P, 3
J, Zhang J, Ren F,
Goodrich R;
                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                Length 672;
                                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cao Y;
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                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZW;
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84 -

ERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFF 143

PRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLL

-APALRLOKSOSSDLL

40 83 Matches

167;

Conservative

0;

Mismatches

Indels

20;

Gaps

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RESULT 13
AAG73987
ID AAG73
XX AAG73
XX AAG73
XX AAG73
XX AAG73
XX AAG73
XX Humar
XX Humar
XX Homo
XX 
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                                                                                                                                                                                                                  CC cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy cancer antigens have cytostatic activity and can be used in gene therapy cand treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome color that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used in the proteins or to color a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent colors and pages 666 to 682 and page 7053 of the sequence listing were missing at the of publication, meaning no sequences are present for SEQ ID NO:1027
                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-235357/24.
N-PSDB; AAH33418.
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                                                                                                                                Sequence 172 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 11; Page 6550-6551; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-SEP-1999;
03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-SEP-2000; 2000WO-US026524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAG73987 standard;
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                                                                                                                                                                                                 of publication, me
052, 7921 and 7922
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99US-0163280P.
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                                 74.1%;
87.0%;
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                              Score 839;
Pred. No. 3.
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DB 4; I
3.9e-78;
hes 5;
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                                                                Length 172;
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RESULT 14
ABO60042
ID ABO60
XX ABO60
XX ABO60
XX ABO60
XX ABO60
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XX Human
XX Human
XX Human
XX Homo
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The invention relates to a nucleic acid probe for measuring human gene CC expression, comprising any of the 27,400 fully defined nucleotide CC sequences in the specification, or their complements or fragments, and CC encoding at least 8 amino acids of any of the 6888 amino acid sequences (fully defined in the specification. The probe is a single exon probe that CC hybridises under high stringency conditions to a nucleic acid molecule CC expressed in human cells or tissues. Also included are a spatially-CC addressable set of single exon nucleic acid probes for measuring human comprising a plurality of grobes for measuring human gene expression (comprising a plurality of grobes is separately CC and addressably isolatable or amplifiable from the plurality), a single exon microarray for measuring human gene expression, a vector comprising the single exon probe cited above, an ORF-encoded peptide comprising the single exon contiguous amino acids of any of the above-mentioned amino acid sequences (optionally with conservative amino acid substitutions), an ethods of selling and/or licensing single exon probes or microarrays to measure gene expression, a method of providing to measure gene expression, an ethod of providing to measure gene expression, a method of providing to measure gene expression, a method of providing cleaton record including data on the expression of a single exon probe expression data base having a plurality of proced cited above. The probe, methods and apparatus are useful in gene expression analysis. The probes may be used as tools for surveying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; gene expression; single exon probe; microarray; alternative splicing event; genomic alteration.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New human genome-derived single exon nucleic acid probes useful for human gene expression analysis, for identifying or characterizing alternative splicing events, for assessing genomic alterations or as tools for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-OCT-2003
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(RANK/) RANK D R.
(HANZ/) HANZEL D'K.
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RESULT 15
RAW79677
ID AAW79677
ID AAW7967
ID Synth
XX Gastr
KW Gastr
KW Gastr
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XX 
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Best Local S
Matches 43
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tissues to detect the presence of expressed messages that contain their
                                                                                                                                                                                                                                                                                                                                                                         New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human; predisposition; treatment; Barret's oeso
gastritis; leiomyoma; polyps; Crohn's disease;
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Granados EN, Hayo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-MAR-1997;
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L, Russell
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Pred. No. 1.2e-16;
0; Mismatches 0;
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MR, Kratochvil
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il JD;
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used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or tracting, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesonharm: gastric ulcer, gastritis, leiomyoma, polyps, Crohm',

Sequence 36 AA;

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Minimum DB
Maximum DB
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Perfect score:
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Maximum Match 100%
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101.5
101.9
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seq length: 2000000000
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Gapop 10.0 , Gapext 0.
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1132
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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                                                                                                                     hypothetical prote
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yosin - Acetabula
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C;Species: Homo sapiens (man)
C;Species: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-Jul-2004
C;Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-Jul-2004
C;Accession: T00636
R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; Burkhart-Schultz, K.; C
R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; Burkhart-Schultz, K.; C
R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; Burkhart-Schultz, K.; C
R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; Burkhart-Schultz, K.; C
R;Lamerdin, J.E.; McCready, P.M.; Cyan, G.; Montgomery, M.; Ow, D.; Nolan, M.;
Speciession: CDC34 and D198342;
A;Reference number: Z14195
A;Accession: T00636
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A;Residues: 1-679 <LAM5
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C;Genetics:
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UNIPARC: UPI00000745CD; EMBL: AC004030; NID: g2804590;

Result

| 82.5<br>82.5                             | 882.5<br>82.5  | 83.5<br>83   | 8 8 8 8<br>5 5 5 5   | 8 8 8<br>4 4 4             |
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| 7.3<br>7.3                               | 7.3  | 7.4  | 7.4  | 7.4<br>7.4<br>7.4          |
| 450<br>1196                              | 210<br>210<br>261<br>386                                 | 1230<br>275<br>686                                       | 489<br>581<br>611<br>881   | 884<br>1378<br>5327        |
| N N                                      | N H N N  | 0 H 0  | N N N N  | ผผพ                        |
| T21931<br>T23832                         | F69983<br>WMBEXE<br>A41950                               | T22458<br>TVRTFR<br>T20898                               | H69680<br>T22455<br>T22456<br>S25445                                       | S66308<br>G88637<br>T13564 |
| hypothetical prote<br>protein-tyrosine k | hypothetical prote infected cell prot retrovirus-related | hypothetical prote transforming prote hypothetical prote | hypothetical prote hypothetical prote hypothetical prote nitrate reductase | O — O                      |

## ALIGNMENTS

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RESULT 2
T14787
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
C;Accession: T14787
C;Accession: T4787
R;Duesterhoeft, A.; Lauber, J.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, A;Reference number: Z18178
A;Accession: T14787
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A;Introns: 594/1; 637/3; 650/3
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Best Local Similarity 100.0%;
Matches 215; Conservative (
                                                                                                                                                                                                                                                                                                                                                                585 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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Pred. No. 8.5e-84;
); Mismatches 0;
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A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-119;120-321 <DUE>
A;Residues: 1-119;120-321 <DUE>
A;Cross-references: UNIPARC:UPI000017C19B; UNIPARC:UPI000017C19C; EMBL:AL110268
A;Experimental source: fetal brain; clone DXFZp564L0716
A;Experimental source: fortal brains a +1 frameshift near codon 119
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A;Residues: 1-1048 <WIL>
A;Cross-references: UNIPROT:045962; UNIPARC:UPI0000082454; EMBL:Z73428; PIDN:CAA97810.1
A:Experimental source: clone M142
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A;Accession: T23764
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A;Cross-references: UNIPARC:UPI0000082454; EMBL:Z99276; PIDN:CAB16481.1;
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A;Accession: T27112
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                                                                                                                                                                                                                                                                                                                                                                                                  A; Introne: 21/3; 122/3; 381/3; 579/3; 647/2; 683/1; 783/2; 855/1; 871/2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;Steward, C.
ubmitted to the EMBL Data Library, September 1997
                                                                                                                                                                                                                                                                                                                                                                                                                     Map position: 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                           Gene: CESP:M142.6
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                                                                LPGGPVVMIPQQQMVPPPQSMTPVGGPMGPMGPMTPSI--PVQVPPNTMWTATSPTGSVI
                                                                                                                                                  PQPMPMLIGYDMPGAPMM-----QATEVLTADGQMVNGTPQRVVIMQ-
                                                                                                                                                                                     QAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESYLRREQEVAEERRNALFPEVFSPT- 113
                                                                                                                                                                                                                                                                         PRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLR--PLRFR-----APDEPQ 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LMEDYETHKSKRRERMD----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                YKTAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAG-----TQRP-----KNLMQT
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                                                                                                                                                                                                                                PNRMGYSSDAPPFIPSHQQQPP----PQ----FFNSQHLPQRFRGGRQRGAPPPPP
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-APPGQRKKEQWYAGINPSDGI---NSEVLEAIR 192
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                                                                                                       PDENSDONSRSSSOASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDS--
                                                                                                                                                                                                                                                                                                                                     9.0%; Score 101.5;
22.6%; Pred. No. 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10.4%;
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Pred. No. 0.034;
4; Mismatches
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                                                                                                                                                  ---SPTH
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immediate-early protein - suid herpesvirus 1 (strain Kaplan) C;Species: suid herpesvirus 1 C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change C;Accession: A45344 R;Vlcek, C.; Kozmik, Z.; Paces, V.; Schirm, S.; Schwyzer, M. Virology 179, 365-377, 1990 A;Title: Pseudorabies virus immediate-early gene overlaps with a A;Reference number: A45344; MUID:91021039; PMID:2171211 A;Accession: A45344
                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 1-1446 <VIC>
A;Residues: 1-1446 <VIC>
A;Crose-references: UNIPROT:P33479; UNIPARC:UPI000012D219; GB:M34651; NID:g334070; PIDN::
C;Superfamily: herpesvirus immediate-early protein IE175
C;Keywords: DNA binding; early protein; transcription regulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C; Accession: A59251
R; Vugrek, O.; Menzel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               myosin - Acetabularia cliftonii
C;Species: Acetabularia clifton
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A;Genetic code: S
F;97-799/Domain:
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A; Accession: A59251
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Description: Molecular
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;Cross-references: UNIPROT:O04146; UNIPARC:UPI00000A9550; GB:U94398; NID:g2051982;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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789
                                                                                                                                                                                                        20 ASKPPR-----GCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWG----WEVAG 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40;
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                                                                                                                                                                                                                                                60;
                                                                                                                                                                                                                                                                     Similarity
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VAAARLABAAARPGPAEPAPGLPPLWPEQPGLVVPAPAPAAAGAPSGLPGSGPSSPASTK
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                                                                                                                                                             AAQPGRVPRELADACVLACRGVLE----RLLPCPLRL---PAPARAPAALGPACLEEVTA 728
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                                                                                <u>ALLALRDAIPGAGPAERRQAADSVALVARTVAPLVRYSVDGARAREAAWTYAAALFAPAN 788</u>
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                                                                                                                         -PALRLOKSOSSDLLERERESVLRREQEVAEERRNA-----
                                                                                                                                                                                                                                                23;
                                                                                                                                                                                                                                                                   Score 96; DB 1;
Pred. No. 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 101;
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|       | Qy 64 WEVAGAPALRIQKSQSSDLLERERESVLRREQEVABERRNALFPEVFSPTPDENSDQN 121  |
|-------|---|
|       | Query Match 8.3%; Score 93.5; DB 2; Length 699; Best Local Similarity 24.3%; Pred. No. 8.7; Matches 45; Conservative 19; Mismatches 68; Indels 53; Gaps 6;  |
| serin | Grene LCs: A;Gene: nimA C;Keywords: ATP; autophosphorylation; nucleus; phosphoprotein; phosphotransferase; F;9-295/Domain: protein kinase homology <kin> F;17-25/Region: protein kinase ATP-binding motif</kin>   |
| PIDN: | A;MCCeBB-UI: AYD: DNA<br>A;RebidueB: 1-699 <osm><br/>A;CroBB-TeferenceB: UNIPROT:P11837; UNIPARC:UPI000013018A; GB:M20249; NID:g168065;</osm>   |
| that  | F C 2. 3  |
|       | RESULT 7  A43734  A43734  probable protein kinase nimA (EC 2.7.1) - Emericella nidulans C;Species: Emericella nidulans, Aspergillus nidulans C;Date: 03-Mar-1993 #sequence_revision 03-Mar-1993 #text_change 31-Dec-2004  |
|       | QY 108 -EVFSPTPDENSDQNSRSSSQASGITGSYSVSESPPFSPIHLHSNVAWTVE-DPVDSAPP 165   |
|       | Qy 66 VAGAPA  |
| -     | Oy 12 KPLSTKQEASKPPRGCPQANRGVVRWE-YFFLRPLRPRAPDEPQQAQVPHVWGWE 65  |
|       | Query Match 8.3%; Score 94.5; DB 2; Length 862;<br>Best Local Similarity 26.1%; Pred. No. 9.4;<br>Matches 47; Conservative 24; Mismatches 72; Indels 37; Gaps 9;  |
|       | A,Accession: T46289 A,BCatus: preliminary A,BClecule type: mRNA A,Rolecule type: mRNA A,Rosidues: 1-862 <aaa> A,Cross-references: UNIPROT:Q9NT23; UNIPARC:UPI000006E24D; EMBL:AL137579 A,Experimental source: adult testis; clone DKFZp434A1010 C,Genetics: C,Genetics: DKFZp434A1010.1</aaa> |
|       | R;Duesterhoeft, A.; Lauber, J.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S. submitted to the Protein Sequence Database, January 2000 A;Reference number: Z23035   |
|       | RESULT 6 T46289 hypothetical protein DKFZp434A1010.1 - human (fragment) c/Species: Homo sapiens (man) C/Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 09-Jul-2004 C/Accession: T46289   |
|       | 894 RRPGDGEEDEGLSGAALRGDGHGHRDDEED  |
|       | GSSGYASSPAAGPDPAPERR  |
|       | QY 117 NSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAG 176   |

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Accession: G83744

Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, F.; Hira Teleic Acids Res. 28, 4317-4331, 2000
Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and Reference number: A83650; MUID:20512582; PMID:11058132
                                                                                                                                                                                                                                                                                                             PP4 protein - yeast (Saccharomyces cerevisiae);Alternate names: protein D2690; protein YDL048c;Species: Saccharomyces cerevisiae;Species: 12-Jul-1996 #sequence_revision 13-Sep-1998 #text_change 09-Jul-2004.Accession: S78573; S67581; S67582;Volckaert, G.
Molecule type: DNA; Residues: 1-40 - VOL. ; Residues: UNIPROT: 007351; UNIPARC: UPI000006A7F5; EMBL: 274096; MIPS: YDL048c; Experimental source: strain S288C ; Experimental source: strain S288C ; Note: this is a revision to the sequence from reference S67560 ; Paulin, L., Saren, A.M.; Laamanen, P. ; Paulin, L., Saren, A.M.; Laamanen, P. ; Danitted to the Protein Sequence Database, July 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Molecule type: DNA
Residues: 1-329 <STO>
Cross-references: UNIPROT:Q9KBU0; UNIPARC:UPI00000C399D; GB:AP001509; GB:BA000004; NII
Experimental source: strain C-125
                                                                                                                                                                                                                   Reference number:
Accession: S78573
                                                                                                                                                                                                                                                   bmitted to the Protein Sequence Database, May 1997
Reference number: S78573
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Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    471 ISIASLSLSPRRTSATYSG---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 142 QTSDLLFQQEESV-------KPFAKVEVRRMDTEYKVMEQLSGIQGLRLI 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 233 RYVSAEQVAAIAYT 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 DGINSEVLEAIRVT 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        185 KVKESSFYGYIQDEYTTLPEAYDRPLFLYLNMFWAYENPEDA----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    136 SVSESPFFS------PIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           78 QSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITG--SY 135
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24.6%; Pred. No. 3.7;
ative 16; Mismatches
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:Molecule type: DNA :Residues: 'MIVSSSFASSIDSVM',1-170 <PAU> :Cross-references: UNIPARC:UPI0000168B82; EMBL:274096; MIPS:YDL048c Reference number: S67560

Accession: S67581

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R;Labeit, S.; Kolmerer, B. Science 270, 293-296, 1995
A;Title: Titins: glant proteins in charge of muscle ultrastructure A;Reference number: A57430; MUID:96026330; PMID:7569978
A;Accession: I38346
A;Status: preliminary; translated from GB/EMBL/DDBJ
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A;Note: this sequence has been revised in reference S78573
R;Urrestarazu, L.A.; Andre, B.; Vissers, S.
submitted to the Protein Sequence Database, July 1996
                                                                                                                                      S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revision
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: UNIPARC:UPI000006A7F5; A;Experimental source: strain S288C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Reference number: S67535
A; Accession: S67582
                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: mRNA
A; Residues: 1-7962 < RES>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             elastic titin - human (fragment)
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                                                                                                                                                                                                                                                                                                                                     A;Cross-references:
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                                                                                                                                                                                                                                                                                              Gene: GDB:TTN
                                                                                                                                                                                                                                                                                                                  Genetics:
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                                                                                                                                                13
                                                                       73
                                                                                                                                                                                    43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WTVEDPVDSAPPGORKKEOWYAGINPSDGINSEVLEAIRVTRHKNAMAERWES---RIYA 210
GSYSVSESPFFSPIHLHSNVAWTVEDPV-DSAPPGQRK------KEQWYAGINPSDGIN 184
                                    ----KKKVPEERKPVPRKEEEVPPPPKVPALPK--KPVPEEKV---
                                                                     RLOKSQSSDLLERERESVLRREQEVABERRNALFPEVFSPTPDENSDQNSRSSSQASGIT
                                                                                                           PVAKKKEA--PPAKVPEVQKGVVTEEKITIVTQREESP-PPAVPEIP-------
                                                                                                                                    PLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PSPPTQHQSILPTAVDNVPRSKSVSSLPVSGFPPLIVKQQQQQQLNSSSSASAL-----
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                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                             GDB:127867; OMIM:188840
                                                                                                                                                                                                                                                                                                                                     UNIPROT:Q10465; UNIPARC:UPI000011010C; EMBL:X90569; NID:g1017426;
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                                                                                                                                                                                                    8.2%; Score 92.5;
20.5%; Pred. No. 2.
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Pred. No.
                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                    62;
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                                                                                                                                                                                                                     Length 7962;
                                                                                                                                                                                    Indels
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RIIShikawa, K.; Nagase, T.; Suyama, M.; Miyajima, N.; Tanaka, A.; Kotani, H.; Nomura, N. DNA Res. 5, 169-176, 1998
A;Title: Prediction of the coding sequences of unidentified human genes. X. The complete A;Reference number: Z14142; MUID:98403880; PMID:9734811
A;Accession: T00354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 12
T00354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypothetical protein KIAA0692 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-Jul-2004
C;Accession: T00354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Title: Sequence and analysis of chromosome 4 of the plant Arabidopsis thaliana. A;Reference number: A85001; MUID:20083488; PMID:10617198
A;Accession: D85435
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A;Residues: 1-783 <ISH>
A;Cross-references: UNIPROT:075176; UNIPARC:UPI000006F01B; EMBL:AB014592; NID:g3327197;
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A;Molecule type: DNA
A;Residues: 1-638 <STO>
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Nature 402, 769-777,
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Local Similarity 25.0%;
tes 35; Conservation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   491 MGMEÓBÁWRÞORGLÞERSVNILRAWLFEHF-LHÞYPSDÁDKHLLARÓTGLSRNOVSNWFI 549
                                                                532 EAAEP--GGPHSSRNGLCHPLNHSRTLAGKRPKAPHGEEAHLPPVSDLTVE-FDKLNLON 588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      550 NA--RVRLWKPMVEEMYQQESKEREREEELEENEEDQE--
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                                                                                                                                                  49;
                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The European Union Arabidopsis Genome Sequencing Consortium, The Cold
SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTP-DENSDQNSRSSSQASGITGSY 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGAPALRIQKSQSSDLL----ERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQN 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TKŚNNNEŚNFTAVRTTŚQTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SRSSSQASGITGSYSVSESP 141
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                                                                                                     EASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEP---QQAQVPHVWGWEVAGAPALRLQK 76
                                                                                                                                                  Conservative
                                                                                                                                                                   8.0%;
                                                                                                                                                  38;
                                                                                                                                                                     Score 90;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 92;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ---AVPVPVAKKAPPPRAEVSKKTVVEEKRFVA---EEKLS 6140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    614
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                                                                                                                                                  Mismatches
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                                                                                                                                                                                         Length 783
                                                                                                                                                    Indels
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                                                                                                                                                                                               A,Status: preliminary; translated A,Molecule type: DNA A,Residues: 1-1390 <SAI>
                                                                                                                                                                                                                                              J. Biol. Chem. 273, 24554-24659, 1998
A;Title: Dictyostelium TRFA homologous to yeast 8sn6 is A;Reference number: Z17852; MUID:98406112; PMID:9733762 A;Accession: T14004
                                                                                                                                                                                                                                                                                                                 C; Accession: T14004
R; Saito, J.; Adachi, H.; Sutoh, K.
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                                                                                                                                                                                                                                                                                                                                                                                        trfA protein
                                                                                                                              A; Introns: 333/3; 364/3; 637/1
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Species: Vicia
                                                                                                                                                                                                                                                                                                                                                    Species: Dictyostelium discoideum
Date: 20-Sep-1999 #sequence_revision
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cross-references: UNIPROT:Q43673; UNIPARC:UPI00000AC87A; EMBL:Z26489; NID:9403335; PII
                                                                                                                                                                                 Cross-references: UNIPROT:077033; UNIPARC:UPI000007E414; EMBL:AB009080; NID:d1228566;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Residues: 1-564 <HE2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Molecule type: DNA
 1204
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           66 VAGAPALRIQKSQSSDILERERESVIRREQEVAEERRNALFPEVFSPTPDENSDQNSRSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7 SESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVW-GWE

    slime mold (Dictyostelium discoideum)

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                                                                                Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IGRS--VSKTPDESTKTKDQILTSRINAVERDLLEPSPADQLGNGHRRTESEMSARIAKM
                             MSPRHLSESSGK-----PLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEP 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOASGITGSYSVSESPFFSPIHLHSNVAW---TVEDPVDSAPPGORKKEQ 172
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VEPTHKDKESSKNDDTTTTTTTTTKSAKSPNSSPTRSDEVV
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faba (fava bean)
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23.5%;
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                                                             27;
                                                                              Score 88;
Pred. No.
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Pred. No. 14
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                                                                                                                                                                                                                                   GB/EMBL/DDBJ
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                                                                                                <u>ب</u>
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                                                                58;
                                                                                                Length 1390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -RLRSPRD-QRGQIVKVENGLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 564;
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                                                                  Indels
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 EPHQDASQEEI 1256
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RESULT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypothetical protein At2g46920 [imported] - Arab:
N;Alternate names: hypothetical protein F14M4.25
C;Species: Arabidopsis thaliana (mouse-ear cress
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ঠ
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A; Accession: T02195
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A; Residues: 1-814 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana
A;Reference number: A84420; MUID:20083487; PMID:10617197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Description: Arabidopsis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;Rounsley, S.D.; Lin, X.; kaui, S. submitted to the EMBL Data Library,
                                                                                                                                                                                                                                                                                                                                                                                 A;Gene: F14M4.25; At2g46920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Accession: H84908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nature 402, 761-768,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;Cross-references: UNIPARC:UPI000009E59E; GB:AE002093; NID:g3522957; PIDN:AAC34239.1;
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                                                                                                                                                                                                                                                                                                                                        680/3; 718/3
                                                                                                                                                                                           24 PRGCPQANRGVVRWEYERLRPLRFRAPDEPQQAQVPHVWGW-----EVAGAPALRLQK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1-814 <ROU>
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                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QQAQVPHVWGWEVAGAPALRLQ-----KSQSSDLLERERESVLRREQEVAEERRNALFP 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EI----KDSKSSSSSSSSSSTNTGSSSTNSS 1337
                                       VSESPFFSPIHLHSNVAWTVED--PVDSAPPGQR------KKEQW 173
                                                                              SHLYKAIDKELEGLLWDYEEPSED--NQLQPDQEPPTEENMCDPESISEQHSKSVVAE--
                                                                                                               SQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYS 136
                                                                                                                                                        PESCLESNRN-LOWAH------GKAGEDRVHVVLSEEQGWLFIGIYDGFSGPDAPDFVM 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EVFSPTPDENSDONSRSSSOASGITGSYSVSES
  -SEEVMIDDISSIGNIDTQIADGPPGDSAGPGKKSMRLYELLQLEQW
                                                                                                                                                                                                                                                                                                                   Arabidopsis thaliana hypothetical
                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                             22.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     thaliana
                                                                                                                                                                                                                                           25;
                                                                                                                                                                                                                                                             Score 87;
Pred. No.
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                                                                                                                                                                                                                                           Mismatches
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    Arabidopsis thaliana

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                                                                                                                                                                                                                                                               DB 2;
35;
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                                                                                                                                                                                                                                                                                                                       protein At2g46920
                                                                                                                                                                                                                                           74;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL: AC004411; NID: g3522932;
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    421
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Search completed: March Job time: 14.5811 secs ω 2006,

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Scoring table:
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Maximum DB
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seq length: 2000000000
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Gapop 10.0 , Gapext 0.5
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       UniProt_05.80:*
1: uniprot_sprot:*
2: uniprot_trembl:*
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Copyright (c) 1993 - 2006
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       1103
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Q9ULL8_HOMB
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Q4PBW3_USTWA
Q55TB7_CRYNE
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                                                                                                                                                                            EMBL; BC042125; AAH42125.1; -; EMBL; BC052236; AAH52236.1; -;
                                                                                                                                                                                                                                                                                                                       This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                             PIR; T00636; T00636.
Ensembl; ENSG00000099812; Homo
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European Bioinformatics Institute. There are no
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|       | CS021     | CS021_HUMAN<br>08IVT2;             | STA          | STANDARD;        |            | PRT; 679 AA.  |  | - |
| Ī     | 13-SE     | 13-SEP-2005                        |              | 48, Created)     | at         |   |  |   |
| Ī     | 13-SE     | 13-SEP-2005                        |              |                  |            | sequence update)  |  |   |
| _     | 13-SE     | 13-SEP-2005                        | •            | 48, Last         |            | annotation update)  |  |   |
|       | Prote     | Protein Clyort21<br>Name=Clyorf21: | 1:           |                  |            |   |  |   |
| •     | Homo      | Homo sapiens                       | (Human)      | <u>.</u>         |            |   |  |   |
| • • • | Eukaryota | Bukaryota; Metazoa;                |              |                  | at         | Craniata; Vertebr   | ata; Euteleostomi;<br>Catarrhini: Hominidae; |   |
|       | Homo.     |                                    |              |                  |            |   |  |   |
|       | ENCBI     | NCBI_TaxID=9606<br>[1]             | 606;         |                  |            |   |  |   |
|       | NUCLE     | NUCLEOTIDE S                       | SEQUENCE     | E [LARGE         |            | SCALE MRNA].  |  |   |
|       | TISSU     | TISSUE=Brain, and Colon;           | and          | Colon;           | 3          | 477932: DOT=10 1073/pnas                                      | 242603899:                                   |   |
|       | Strat     | Strausberg R.L., F                 | L. F         | eingold          | ,<br>E     | Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,      |  |   |
|       | Klaus     | mer R.I                            | .;<br>61     | lins F.          | Ċ          | Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler | ., Schuler G.D.,                             |   |
|       | Altso     | hul S.E                            | ., Zee       | berg B.          |            | Buetow K.H., Schaefer C.F.,                                   | •  |   |
|       | Hopk      | ns R.F.                            | , Jord       | an H.,           | `≅         | Hopkins R.F., Jordan H., Moore T., Max S.L., wang J.,         | Hong I.                                      |   |
| _     | Stanl     | Stapleton M                        | Soar<br>Soar | DA M. B.         | :          | Ronaldo M.F., Casavant T.L.,                                  | L. Scheetz T.E.                              |   |
|       | Brown     | Brownstein M.J.,                   | .J., U       | J., Usdin T.B.,  | ₩          | Toshiyuki S.  | Prange C.,                                   |   |
|       | Raha      | Raha S.S., I                       | oguell       | Loguellano N.A., |            | Peters G.J., Ak   |  |   |

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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13-SEP-2005 (Rel. 48, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation updat
Protein C19orf21 homolog.
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                              DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                            NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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75892 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                              93.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -; mRNA.
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Pred. No. 3
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Pred. No. 1e
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                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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RESULT

nstitute. There are no restrictions of in no way modified and this statement

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RP MUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

RN MEDLINE-22354683; PubMed=12466851; DOI=10.1038/nature01266;

RN MEDLINE-22354683; PubMed=12466851; DOI=10.1038/nature01266;

RN MOKAZAKI Y., FUTUNO M., KASUKAWA T., Adachi J., Bono H., Kondo S.,

RN MIKAIGO I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,

RN MIKAIGO I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,

RN MIKAIGO I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,

RN MIKAIGO I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,

RN Mikaido I., Osato N., Saito R., Nogami A., Schonbach C., Gojobori T.,

RN Madarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,

RN Malla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,

RN Balake J.A., Bradt D., Brusto V., Chothia C., Corbani L.E., Cousins S.,

RN Balake J.A., Bradt D., Brusto V., Chothia C., Corbani L.E., Cousins S.,

RN Balake J.A., Bradt D., Brusto V., Chothia C., Corbani L.E., Cousins S.,

RN Gasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,

RN Gasterland S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,

RN Gasterland S., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,

Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,

RN Magashima T., Numata K., Okido T., Paran W.J., Pertea G., Pesole G.,

RN Magashima T., Numata K., Okido T., Paran W.J., Ramachandran S.,

RN Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,

RN Ravasi T., Reed J.C., Reed D.J., Reid J., Ramachandran S.,

RN Milming L., Schneider C., Semple C.A., Setou M., Shimada K.,

RN Wilming L., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,

RN Wilming L., Washizume W., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,

RN Wilming L., Scholand H., Nakamura M., Kasawa I.,

RN Miraya K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,

RN Miraya K., Sakai Y., Sasaki D., Shibata K., Shinagawa A.,

RN Mayazaki A., Schai Y., Sasaki D., Shibata K., Shinagawa A.,

RN Mayazaki A., Schai Y., Sasaki D., Shibata K., Shinagawa A.,

RN Mayazaki A., Sc
                                                                                                                                                                                                 RC STRAIN=FVB/N; TISSUE-Colon;

RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

RA Strausberg R.L., Peingold E.A., Grouse L.H., Derge J.G.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsich F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsich F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Schapleton M., Ugdin T.B., Toshiyuki S., Carrinci P. Prange C.,

RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carrinci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Raha S.S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Robards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

RA Raha S.S., Loquellano J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

Raha Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,

"Generation and initial analysis of more than 15,000 full-length human

RT "Generation and initial analysis of more than 15,000 full-length human
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Q9D279;
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Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia, Sciurognathi,
Muroidea, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Birney E., Hayashizaki Y.;
"Analysis of the mouse transcriptome based on functional annotation 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-SEP-2005 (Rel. 48, Created)
13-SEP-2005 (Rel. 48, Last sequence up
13-SEP-2005 (Rel. 48, Last annotation
Protein C19orf21 homolog.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus (Mouse)
                                                           This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                     and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
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ween the Swiss Institute of Bioinformatics Institute. as long as its content is in no way
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Best Local Simi
Matches 154;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q9Y2D5; Q9UG26;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AKAP2_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AK020266; BAB32049.1; -; mRNA.
EMBL; BC013508; AAH13508.1; -; mRNA.
Ensembl; ENSMUSG00000035852; Mus musculus
MGI; MGI:1926156; 9130017N09R1k.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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                                                                                                                                                                      Nagase T., Ishikawa K.-I., Suyama M., Kikuno R., Hirosawa Miyajima N., Tanaka A., Kotani H., Nomura N., Ohara O., "Prediction of the coding sequences of unidentified human The complete sequences of 100 new cDNA clones from brain w for large proteins in vitro.";
                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM A).
SCHUETZE N., Reichel S., Ruecker N., Lechner A., Eulert
"Homo saplens AKAR-2 complete cDNA sequence.";
submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        removed
                                                                                           The German cDNA consortium; submitted (AUG-1999) to the
                                                                                                                     NUCLEOTIDE SEQUENCE [LARGE TISSUE-Brain;
                                                                                                                                                                                                                                                         TISSUE=Brain;
                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM A)
                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                               Name-AKAP2; Synonyms-KIAA0920
                                                                                                                                                                                                                                                                                                                                                                                                                                                         A-kinase anchor protein 2
                                                                                                                                                                                                                                        MEDLINE-99246063; PubMed-10231032;
                                                                                                                                                                                                                                                                                                                                                                                                                   domo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                              (PRKA2) (AKAP-2).
                                      nitted (AUG-1999) to the EMBL/GenBank/DDBJ databases. FUNCTION: Binds to regulatory subunit (RII) of protein kinase May be involved in establishing polarity in signaling systems in integrating PKA-RII isoforms with downstream effectors to capture, amplify and focus diffuse, trans-cellular signals car
 capture, amplify and foct
by cAMP (By similarity).
ALTERNATIVE PRODUCTS:
Event=Alternative splici
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             612
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SPRHVSESSGRSLSSKQEWSKPPG--KATNVGVVRLGNFHLRPLRFKVPDVPQGTETPHT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PSDGINSEVLEAIRVTRHKNAMAERWESRIYASBEDD
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                                                                                                                                                                                                                                                                                                                                                                                          Eutheria;
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648 AA;
                                                                                                                                                                                                                                                                                                                                                                                                     Metazoa;
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72281 MW;
                                                                                                                                                                                                                                                                                                                                                                                        Chordata; Craniata; Vertebrata; Euteleostomi; Euarchontoglires; Primates; Catarrhini; Homin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         69.5%;
  splicing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22;
                                                                                                                                     SCALE MRNA]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 786.5; DB Pred. No. 2e-51;
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; 1E395B70763B3D1F CRC64;
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EMBL; AB023137; BA376764.2; ALT INIT; m
EMBL; AL110268; CAB53707.1; -; mRNA.
Ensembl; ENSG00000157654; Homo sapiens.
HGNC; HGNC; AKAPZ.
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                                                                                               NUCLEOTIDE Lawlor S.;
                                                                                                                                                                                                                                                 01-FEB-2005 (TrEMBLrel. 29, Created)
01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation updat
A kinase (PRKA) anchor protein 2.
Name=AKAP2; ORFNames=RP11-470J20.3-001;
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                                                                                                                                                   NCBI_TaxID=9606;
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Submitted
[4]
                                        LOC495240 protein.
Name=LOC495240;
Xenopus laevia (African clawed frog).
Eukaryota; Metazoa; Chordata; Craniata; Veramphibia; Batrachia; Anura; Mesobatrachia;
Xenopodinae; Xenopus; Xenopus.
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AL158823; CAI33956.1;
AL158823; CAI33956.1;
AL158823; CAI3434.1;
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AL158823; CAI12434.1;
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AL353598; CAI12434.1;
AL158823; CAI13956.1;
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AL158823; CAI40816.1;
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AL158823; CAI13896.1;
AL158823; CAI10816.1;
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annotation update)
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                                                                   Vertebrata; l
ia; Pipoidea;
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                                                                       Euteleostomi;
; Pipidae;
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RESULT 7
Q5UJ01 RAT
ID Q5UJ01 RAT PRELIMINARY;
ID Q5UJ01,
AC Q5UJ01,
DT 01-FEB-2005 (Tremblrel. 29, C)
DT 01-FEB-2005 (Tremblrel. 29, L;
DT 01-FEB-2005 (Tremblrel. 29, L;
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DAFFEE BROSS
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Stapleton M., Soards M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Stapleton M., Soards N.F., Casavant T.L., Scheetz T.E.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McZwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Pahey J., Helton E., Ketteman M., Madan A., Gaybu J.J., Hulyk S.W.,

A Willialon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

A Milting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

"Generation and initial analysis of more than 15,000 full-length human

"Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local
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MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Spleen;
MEDLINE=2234132; PubMed=12454917; DOI=10.1002/dvdy.10174;
Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Klein S., Gerhard D.S.;
Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases
                            Eukaryota; Metazoa;
                                                      Rattus norvegicus (Rat)
                                                                                      Name=Akap2_predicted
                                                                                                                   A kinase (PRKA) anchor
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Mammalia; Eutheria; Euarchontoglires;
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                                                                                                                                                                                                                                                                                                                                                                                                                                       RRDRMD---
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94904 MW;
                            Chordata;
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Pred. No. 1.4;
Craniata; Vertebrata; Euto
Oglires; Glires; Rodentia;
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                                                                                                                                                sequence update)
annotation update)
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                            Euteleostomi;
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   Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               848;
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RESULT B
Q5JTZ4 HUMAN
ID Q5JTZ4 H
AC Q5JTZ4 DT 10-MAY-2
DT 10-MAY-2
DT 13-SEP-2
DE A kinage
GN Name=AKB
OC Homo Bag
OC Mammalik
OC Momonalik
OC MOMONAL
ACTION
RN [1]
RP NUCLEOTI
RA Submittee
RN [2]
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
A Altschul S.F., Zeeberg B., Buctow K.H., Schaefer C.F., Bhat N.K.,
A Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
A Distchenko L., Marusins K., Farmer A.A., Rubin G.M., Hong L.,
A Distchenko L., Marusins K., Farmer A.A., Rubin G.M., Hong L.,
A Distchenko L., Marusins K., Farmer A.A., Rubin G.M., Hong L.,
A Distchenko L., Marusins K., Farmer A.A., Rubin G.M., Hong L.,
A Distchenko L., Marusins K., Farmer A.A., Rubin G.M., Hong L.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.;
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Pahey J., Helton E., Kettenan M., Madan A., Rodrigues S., Sanchez A.,
A Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
A Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
Tennerca T., Skalska U., Smailus D.E.,
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Best Local
   Submitted [2]
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Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; BC085790; AAH85790.1; -; mRNA.
Ensembl; ENSRNCG00000011504; Rattus norvegicus.
GO; GO:0016301; F:kinase activity; IEA.
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                                                                                                                                                                                                                                                                                                                           IO-MAY-2005 (TrEMBLrel. 30, Created)
IO-MAY-2005 (TrEMBLrel. 30, Last sequence update)
I3-SEP-2005 (TrEMBLrel. 31, Last annotation update)
A kinase (PRKA) anchor protein 2 (Fragment).
Name=AKAP2, ORPNames=RP11-470J20.3-007;
                                                                 NUCLEOTIDE SEQUENCE Phillimore B.;
                                                                                                                                                                                                                                  Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q5JTZ4_HUMAN PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Kidney;
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                                                                                                                                                          NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                   domo sapiens (Human)
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c. Natl. Acad. Sci. U.S
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Pred. No. 2.1;
30; Mismatches
                                                                                                                                                                                                                                                                    Craniata;
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                                                                                                                                                                                                                                     a; Vertebrata; Euteleostomi;
Primates; Catarrhini; Homin
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RESULT 9
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S., RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S., RA Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R., RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., RA Kadota K., Matsudo Y., Nikaido I., Pesole G., Quackenbush J., RA Kuchl P., Lewis S., Matsudo Y., Nikaido I., Pesole G., Quackenbush J., RA Kuchl P., Lewis S., Matsudo Y., Nikaido I., Pesole G., Quackenbush J., RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., RA Hyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerte P., RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F., Na Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L., Waynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
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Best Local S
Matches 42
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EMBL; AL158823; CAI39562.1; -; Genomic_DNA.
EMBL; AL158823; CAI40818.1; JOINED; Genomic_DNA.
EMBL; AL353598; CAI39562.1; JOINED; Genomic_DNA.
GO; GO:0016301; F:kinase activity; IEA.
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01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Mus musculus adult male testis cDNA, RIKEN full-length
library, clone:4932411M01 product:A kinase anchor prote
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kimberley A.;
Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
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                                                                                                                                                                                                                                                                                                         STRAIN=C57BL/6J; TISSUE=Testis;
MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M.,
Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M.,
                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=C57BL/60; TISSUE=Testis;
MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
Carninci P., Hayashizaki Y.;
"High-efficiency full-length cDNA cloning.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Mus.
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nilarity 23.3%;
Conservative 3
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Pred, No. 2
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Matches 42
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                                                                                                                                                                                                                                                                                                                                                                                                                   Kinase.
SEQUENCE
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MEDLINB=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINB=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,

Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M.,

Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,

Yamamoto R., Matsumoto H., Sakayuchi S., Ikegami T., Kashiwagi K.,

Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watchiki M.,

Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,

Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

"RIKEN integrated sequence analysis (RISA) system-384-format

sequencing pipeline with 384 multicapillary sequencer.";

Genome Res. 10:1757-1771(2000).
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STRAIN=C57BL/6J; TISSUE=Testis;
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GO:0007015; P:actin filament organization; IDA.
GO:0008104; P:protein localization; IPI.
GO:0007178; P:transmembrane receptor protein se
                                                                                                     783
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                                      TVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAERWESRIYASSED
                                                                                                     CYKTAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAG-----TQRP
                                                                                                                                                                                                             MVGPFKLRSRKQRTLSMIEEEIRAAQEREEELKRQRQVRQSTPSPRAKNA--PSLPSRTT
                                                                                                                                                                                                                                                            VAGAPALRIQKSQSSDLLERERESVIRREQEVASER-----RNALFPEV----
                                                                                                                                                                                                                                                                                                                                                                                                                         880 AA;
                                                                                                                                                                                                                                                                                                                      Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                         97137 MW;
                                                                                                                                                                                                                                                                                                                                         10.4%;
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                                                                                                                                                                                                                                                                                                                                            Score 117.5;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                   Pred. No. 2.5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                         1CD1888BA492C55D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          receptor protein serine/threo.
-DSSVLEATRVNRRKSALALRWEAGIYANQEE
                                                                                                                                                                                                                                                                                                                                            5;
                                                                                                                                                                                                                                                                                                                                                                       BB
                                                                                                                                                                                                                                                                                                                46;
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                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                       880;
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                                                                                                                                                                                                                                                                                                                59;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tagami
                                                                                                  ----KNLMQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Itoh
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RESULT 11
Q9ULLB HUMAN PRELIMINARY;
LD Q9ULLB;
AC Q9ULLB;
DT 01-MAY-2000 (TrEMBLrel. 13, C.
DT 01-MAY-2004 (TrEMBLrel. 13, L.
DT 01-MAR-2004 (TrEMBLrel. 26, L.
DE KIAA1202 protein (Fragment).
GN Name=KIAA1202;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata;
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Best Local
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SEQUENCE
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InterPro; IPR001478; PDZ.
Pfam; PF00595; PDZ; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -i- SIMILARITY: Contains 1 PDZ (DHR) EMBL; AL121865; CAC08472.2; -; Genom EMBL; AL359272; CA195315.1; -; Genom EMBL; AL359272; CAC08472.2; JOINED; EMBL; AL121865; CA195315.1; JOINED; EMBL; ENSG00000158352; Homo Bapis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (MAY-2005) to the EMBL/GenBank/DDBJ
-- SIMILARITY: Contains 1 PDZ (DHR) domain.
EMBL; AL121865; CAC08472.2; -/ Genomic_DNA.
EMBL; AL359272; CA195315.1; -/ Genomic_DNA.
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01-MAR-2001 (TrEMBLrel. 16,
13-SEP-2005 (TrEMBLrel. 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens (Human)
Eukaryota; Metazoa;
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Q9H4G2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Name=RP11-119E20.1;
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HUMAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    SM00228; PDZ;
                                                                                                                                                                                                                                                                                                                                                                        Similarity 53; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                    , PS50106; FUL
1493 AA;
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                                                                                                                                                                                                                                                                                                                        ETQSDLLGARKKAFPPPRPPPP-----NWEKYRL----FRAAQQQKQQQ------
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                                                                                                                                                                                                                                               DQ---
                                                                                                                                                                                                                                                                                              GAPALRLOKSO-SSDLLERERESVLRREOEVAEERRNALFPEVFSP-----TPDENS 118
                                                                                                                                                                                                                                                                      -----QQQKQQEEEEEEEEEEEEEEEEEEEEEEEEEAEEEEELPPQYFSSETSGSCALNPEEVL 1180
                                                                                                                                                                                                                                                                                                                                               ESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVA
                                                                                                                                                                    YGIGGLWRTSĠQEATĖSAKQEFQHFSPPSĠ
                                                                                                                                                                                                                      EQPQPLSFGHLEGSRQGSQSVPAEQESFALHSSDFLPPIRGHLG-----SQPEQAQPPCY 1235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (MAY-2005)
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                                                                                                                                                                                                                                             ----NSRSSQA-SGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPP-- 165
                                                                                                                                                                                                                                                                                                                                                                                                                          PDZ; 1.
1; 164857 MW;
                                                                                                                                                                                              GORKKE---QWYAGINPSDG 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORFNames=RP11-119E20.1-001;
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Last sequence update)
Last annotation updat
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Last sequence update)
Last annotation updat
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Pred. No. 8.3
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Chordata; Craniata; Vertebrata; Euteleostomi;

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SO DE RESERVA
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Matches 51
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O96836;
O96837; O96836;
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SMART; SM00228; PDZ; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -!- SIMILARITY: Contains 1 PDZ
EMBL; AB033028; BAA86516.1; -;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ohara O.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nagase T., Ishikawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE-20039619;
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                                                                                                       PubMed=15935763; DOI=10.1016/j.c
King-dones K., Charles J.P., Lar
"The ecdysone-induced DHR4 orphi
and maturation in Drosophila.";
                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE
SPECIFICITY.
                                                                                                                                                                                                                                                                           NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HR4 DROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nterPro;
  STRAIN=Oregon-R;
MEDLINE=20196011;
                                            NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GO:0005515; F:protein erPro; IPR001478; PDZ.
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Res. 6:337-345(1999).
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                                                                                       121:773-784 (2005).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   68 GAPALRIQKSQSSDLIERERESVIRREQEVAEERRNALFPEVFSP-----TPDENSD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ENSG00000158352; Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1502 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                           3; DOI=10.1016/j.cell.2005.03.030;
Charles J.P., Lam G., Thummel C.S
induced DHR4 orphan nuclear recept
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PubMed=10574462;
wa K.-I., Kikuno
      PubMed=10731137;
                                                                                                                                                                                                                                         [MRNA],
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                                                                                                                                                                                                                                           FUNCTION,
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Pred. No. 9
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    DOI=10.1126/science.287.5461.2220;
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                                                                                                                                                                                                                                           SUBCELLULAR LOCATION,
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Muscomorpha;
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brain which co
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RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Mannatides P.G., Scherer S.E., Holt R.A., Evans C.A., Galle R.P.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Barla J.P., Agbayani A., An H.-J., Andrews-Fannkoch C.R., Miklos G.L.G.,
RA Abril J.P., Agbayani A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Gherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I. Dietz S.M.,
Dodson K., Doup L.S., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA de Pablos B., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Fosler C., Gabrielian A.E., Garg N.S., Gelbart M., Glasser K.,
RA Harris N.L., Harvey D.A., Heinan T.J., Wei M.-H., Ibegwam C.,
RA Harris N.L., Harvey D.A., Heinan T.J., Wei M.-H., Ibegwam C.,
RA Harris N.L., Mattei B., McIntosh T.C., McLeod M.P., McRohlov G., Mishina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Merkulov G., Mishina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Melson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Melson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Melson D.R., Nelson K.A., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Santh T.,
RA Shue B.C., Staplenca I., Simpson M., Skupski M.P., Santh T.,
RA Shue B.C., Staplenca I., Simpson M., Skupski M.P., Santh T.,
RA Shue B.C., Staplenca I., Simpson M., Skupski M.P., Santh T.,
RA Shue B.C., Staplench J.R., Shon M., Shush M.P., Santh T.,
RA Shue B.C., Staplench J.R., Shon M., Shush M.P., Santh T.,
RA Shue B.C., Staplench J.R., Shush M.P.
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Barrell B.G., Ferraz C., Vidal S., Brun C., Demailles J., Cadieu |
Dreano S., Gloux S., Lelaure V., Mottier S., Galibert F., Borkova
Minana B., Kafatos F.C., Louis C., Siden-Kiamos I., Bolshakov S.,
Papagiannakis G., Spanos L., Cox S., Madueno E., de Pablos B.,
Modolell J., Peter A., Schoettler P., Werner M., Mourkioti F.,
Beinert N., Dowe G., Schaefer U., Jaeckle H., Bucheton A.,
Callister D.M., Campbell L.A., Darlamitsou A., Henderson N.S.,
McMillan P.J., Salles C., Tait E.A., Valenti P., Saunders R.D.C.,
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                                                                                                                                                                                                                                                                                                                             MEDIINE-22426069; PubMed=12537572;
Misra S., Crosby M.A., Mungall C.J., Malthews B.B., Campbell K.S.
Hradocky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.
Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B
Bettencourt B.R., Celniker S.E., de Groy A.D.N.J., Drysdale R.A.,
Harris N.L., Richter J., Ruseo S., Schroyeder A.J., Shu S.Q.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
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                                                                                                                                                                                                                                                                                                                         Stapleton M., Yamada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENOME REANNOTATION
                                                                                                                                                                              Genome Biol. 3:RESEARCH0083.1-RESEARCH0083.22(2002)
                                                                                                                                                                                                                systematic review.",
                                                                                                                                                                                                                                               "Annotation of the
                              triggered by the
                                                                                                FUNCTION: Coordinates growth and maturation by mediati
responses to the attainment of critical weight during
                                                          development. Plays a central role
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  287:2220-2222 (2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PubMed=10731132; DOI=10.1126/science.287.5461.2185; ker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chromosome: the tip
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                                  steroid
                              hormone
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ecdysone at the repressor of the
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                                                                 in the genetic
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                                                                                                                                                   mediating endocrine
   onset
early
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                                                                                                                                                                                                                                                               genome:
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Borkova
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                                                                                                                    larval
       ecdysone-
                                                                                                                                                                                                                                                                                                                                                                                                                                                     B. P.
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Query Match
Best Local
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InterPro; IPR000536; Hrmn_rcpt_lig_bd.
InterPro; IPR000536; Hrmn_rcpt_lig_bd.
InterPro; IPR001723; Stdhrmn_receptor.
InterPro; IPR001723; Stdhrmn_receptor.
InterPro; IPR00124; VitD_receptor.
Pfam; PF00104; Hormone_recep; 1.
Pfam; PF00105; zf-C4; 1.
                                                                                                                                                                                                                                                                                     Transcription 1910
DNA BIND 921
ZN FING 95
ZN FING 95
COMPBIAS 95
COMPBIAS 131
COMPBIAS 231
COMPBIAS 46
COMPBIAS 46
COMPBIAS 134
COMPBIAS 134
COMPBIAS 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA-binding; Metal-binding; Nuclear protein; Transcription; Transcription; Zinc, Zinc-finger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS00031; NUCLEAR REC_DBD_1; 1.
PROSITE; PS51030; NUCLEAR_REC_DBD_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRINTS; PR00398; STRDHORMONER.
PRINTS; PR00367; STROIDFINGER.
PRINTS; PR00350; VITAMINDR.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FlyBase; FBgn0023546; Hr4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nge
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                +
                                                                                                                                                                                                                                                                          CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GO:0005634; C:nucleus; IDA.
GO:0004879; F:ligand-dependent nuclear receptor activity; IMP.
GO:004007; P:growth; IMP.
GO:0030518; P:steroid hormone receptor signaling pathway; IMP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                s Swiss-Prot entry is copyright. It is produced the ween the Swiss Institute of Bioinformatics and to European Bioinformatics Institute. There are no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            leave the food to form premature prepupae, resulting in abbreviated larval development that translates directly smaller and lighter animals.

SIMILARITY: Belongs to the nuclear hormone receptor fami
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUBCELLULAR LOCATION: Nuclear.
TISSUB SPECIFICITY: During L2 and L3 stages, strong cor
expression is seen in the ring gland. Lower expression
in specific neurons of the central nervous system (CNS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         erroneous gene model prediction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SIMILARITY: Contains 1 nuclear receptor DNA-binding CAUTION: Ref.2 and Ref.3 sequences differ from that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein level).
MISCELLANEOUS:
                                                                         687
 738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            P19793;
                                   5
4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AL035245; CAA22836.1; ALT_SEQ; AE003422; AAF45702.3; ALT_SEQ;
                                                                                                            N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               long as its content is in no way modified and this statement
                                                                                                                                                               Similarity
 GQSHGQHPQQQQQSPH--
                                                                         SPHPSSSSSSSQLSPQTPSQTPPRGTPTVIMGESCGVRTMVWGY
                                                                                                          SPRHLSESSGKPLSTKQEASKPPRGCPQANRG-----VVRWEYFRLRPLRFRAPDEP--
                                                                                                                                                                                                                ion regulation; 2
918
921
921
957
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AA; 16265
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                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Drosophila melanogaster.
                                 QQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Plies lacking Hr4 exhibit larvae that precociously to form premature prepupae, resulting in
                                                                                                                                                             9.6%;
                                                                                                                                                                                                                     162655
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                                                                                                                                                                                                                                                                                                                                                                                 NR C4-type 1.
NR C4-type 2.
Ala-rich.
                                                                                                                                                                                                                                                                                           Gln-rich
                                                                                                                                                                                                                                                                                                                           Gly-rich.
Arg-rich.
                                                                                                                                                               Score 108.5;
Pred. No. 24
                                                                                                                                                                                                                                                                                                                                                                Ser-rich.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Nuclear receptor.
                                                                                                                                                                                                                                                                                         ţ
                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   an
----HQPQQQQQQQQQQQQQQQQQQQQQSLGQQQHCL
                                                                                                                                                                                                                                  R (in Ref. 1).
R (in Ref. 1).
V (in Ref. 1).
KA (in Ref. 1).
                                                                                                                                                                                                                   DDBDFEBA416D17AA
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                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of the ftz-fl midprepupal
                                                                                                                                            80;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         system (CNS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and the EMBL outstation
                                                                                                                                                                              Length 1518;
                                                                                                                                              Indels
                                                                                                                                                                                                                   CRC64;
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shown due
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                                                                                                                                            73;
                                                                       ---EPPPPSA
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                                                                                                                                                                 Query Match
Best Local S
Matches 48
                                                                                                                                                                                                                           PRINTS; PR00398; STRDHORMONER.
PRINTS; PR003047; STRDHORMONER.
PRINTS; PR00350; VITAMINDR.
SMART; SM00430; HOLL; 1.
SMART; SM00430; HOLL; 1.
SMART; SM0039; ZnF C4; 1.
PROSITE; PS01031; NÜCLEAR_REC_DBD_2; 1.
PROSITE; PS51030; NUCLEAR_REC_DBD_2; 1.
PROSITE; PS51030; NUCLEAR_REC_DBD_2; 1.
DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription; Transcription regulation; Zinc; Zinc-finger.
Transcription regulation; Zinc; DDBDFEBA416D17AA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -I- SUBCELLULAR LOCATION: Nuclear (By similarity).
-I- SIMILARITY: Belongs to the nuclear hormone receptor family.
EMBL; AY971884; AAX73355.1; -; mRNA.
GO; GO:0005634; C:nucleus; IEA.
GO; GO:0046872; F:metal ion binding; IEA.
GO; GO:0003707; F:steroid hormone receptor activity; IEA.
GO; GO:0003700; F:transcription factor activity; IEA.
GO; GO:0003700; F:regulation of transcription, DNA-dependent; IEA.
                                                                                                                                                                                                                                                                                                                                                                            Pfam; PF00104; Hormone_recep; Pfam; PF00904; Involucrin; 1. Pfam; PF00105; zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Inse
Neoptera; Endopterygota; Diptera; Brachycera;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001628; Hrmn_rcpt_DNA_bd.
InterPro; IPR000536; Hrmn_rcpt_1ig_bd.
InterPro; IPR000354; Involucrin_rpt.
InterPro; IPR001723; Stdhrmn_receptor.
InterPro; IPR000324; VitD_receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        King-Jones K., Charles J.P., Lam G., Thumm "The ecdysone-induced DHR4 orphan nuclear and maturation in Drosophila.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cell 121:773-784(2005)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PubMed=15935763;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hormone receptor 4.
Name=Hr4; ORFNames=CG16902;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GO; GO:0006350; P:transcription;
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LFPEVFSPTPDENS---
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                                                                                                         SPHPSSSSSSQLSPQTPSQTPPRGTPTVIMGESCGVRTMVWGY-----EPPPPPSA
                                                                                                                                     SPRHLSESSGKPLSTKQEASKPPRGCPQANRG-----VVRWEYFRLRPLRFRAPDEP--
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                                                                           ---QQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNA 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOI=10.1016/j.cell.2005.03.030;
harles J.P., Lam G., Thummel C.S
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Pred. No. 24;
30; Mismatches
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                                             ---HQPQQQQQQQQQQQQQQQQQQQGCL 786
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              ----DONSRSSSOASGITGSYSVSE-----
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                                                                                                                                                                            Zimmer A., Zody M., Lanuer E.,
"The genome sequence of Ustilago maydis.";
Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases
-I- CAUTION: The sequence shown here is derived from an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN-521,
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                                                             EMBL; AACPO1000083; EAK83438.1;
InterPro; IPR006565; BTP.
InterPro; IPR007124; Hist_TAF.
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SUBCELLULAR LOCATION: Nuclear
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  Hypothetical protein; Nuclear protein
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OSSTP8;
OSSTP8;
OSSTP8;
OSSTP8;
                                                                                                                                                                                                                                                                                                                                                                             Fung E., Hyman R.W., Rowley D., Bruno D., Mira Wickes B.L., Pu J., Davis R.W.;
"Cryptococcus neoformans serotype D sequencing Submitted (JUL-2004) to the EMBL/GenBank/DDBJ-I- CAUTION: The sequence shown here is derive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cryptococcus neoformans var. neof
Bukaryota; Fungi; Basidiomycota;
Tremellomycetidae; Tremellales; T
NCBI_TaxID=283643;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hypothetical protein. ORFNames=CNBD4050;
                                                                                                                                                                                                                                                                                                                Hypothetical protein. SEQUENCE 1066 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE
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13-SEP-2005
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                                                                                                                                                                                                                                                                                                                                         AAEY01000021; EAL21029.1; -; Genomic_DNA.
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                                                                                                                                                                                                                                 2 SPRHLSESSGKPLS-----TKQEASKPPRGC-----PQANRGVVRWEYFR------
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                                                 PLSGAFGQPTFSWSNQPSFSFLPLPLGS--
                                                                        QASGITG--SYSVSESPFFS--PIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDG
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QSADTPE 409
                         INSEVLE 189
                                                                                                     EKEK-----EESRRALEKLTGSESRSTSPFVESPVAEISLPDLDDEDSSSVASSNR
                                                                                                                             ERESVLRREQEVAEERRNAL-----FPEVFSPT-----PDENSDQNSRSSS
                                                                                                                                                                                ----LRPLRFR-----APDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLER
                                                                                                                                                                                                          SPRRPSNTSSRPPSLLLARPPSNALSPPRSAAGPSSPPAQTKKKRHSHTRSNSISLPNIK 247
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Pred. No. 18;
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Search completed: March Job time: 84.1137 secs

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Run on:
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146
101.5
93.5
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seq length: 2000000000
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Gapop 10.0 , Gapext 0.5
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1132
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1: /cgn2_6/ptodata/1/1aa/5_COMB.pep:*

2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*

3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*

4: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*

5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*

6: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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US-10-278-547-45

US-10-278-547-45

US-10-278-547-46

US-10-278-547-46

US-10-278-547-44

US-09-050-516-44

US-09-050-0518-2

US-09-248-718-1373

US-09-248-718-14

US-09-252-9918-27223

US-09-260-918-27223

US-09-260-918-27223

US-09-261-718-14
                                                                                 US-09-248-796A-20513
US-09-949-016-8593
US-09-041-886-21
     US-08-568-459A-4
US-08-487-826B-4
US-09-210-288-4
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17, Appl
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| 45                 | 44                   | 43                | 42              | 41               | 40     | 39  | 38               | 37               | 36               | 35     | <b>3</b> | y<br>y           | 32               | <u>3</u> 1 | 30               | 29         | 28                |
|--------------------|----------------------|-------------------|-----------------|------------------|--------|-----|------------------|------------------|------------------|--------|----------|------------------|------------------|------------|------------------|------------|-------------------|
| 82                 | 82                   | 82.5              | 82.5            | 82.5             | 82.5   |     |                  | 82.5             |                  | 82.5   |          | 82.5             |                  | 82.5       | 82.5             | 82.5       | 83                |
| 7.2                | 7.2                  | 7.3               | 7.3             | 7.3              | 7.3    | 7.3 | 7.3              | 7.3              | 7.3              | 7.3    | 7.3      | 7.3              | 7.3              | 7.3        | 7.3              | 7.3        | 7.3               |
| 470                | 281                  | 1346              | 1346            | 489              | 489    | 489 | 489              | 489              | 489              | 489    | 489      | 489              | 489              | 489        | 489              | 489        | 1435              |
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| US-10-104-047-2022 | US-09-252-991A-17976 | US-08-978-277A-2  | US-08-635-121-2 | US-09-062-890-38 | -890-3 | ı۵  | US-09-062-890-32 | US-09-062-890-30 | US-09-062-890-28 | -890-2 | -890-2   | US-09-062-890-10 | US-09-020-991-22 | ۲,         | US-08-589-893-22 | -589-893-1 | -153-273          |
| Sequence 2022, Ap  | Sequence 17976, A    | Sequence 2, Appli | Ņ               |                  | e 56,  |     |                  | ָ<br>ט<br>ע      |                  | 0,0    | ,        | Į,               | 7 2 2            |            |                  |            | Sequence 4, Appli |

## ALIGNMENTS

| N: ING-MEDEL, PATRICIA N, MAURICE ITTS, TRACEY L. DWAN, PAULA N. ON, JULIAN ADOS, EDWARD N. ES, STEVEN C. S, MICHAEL R. OCHVIL, JOHN C. UPB, STEPHEN D. ON: FOR DETECTING DISEASES OF THE GASTROINTESTINAL ON: FOR DETECTING DISEASES OF THE GASTROINTESTINAL ON: TRACT CIS: 49 DDRESS: bott Laboratories bott Park Road Park PARE 100 DISEASE EFORM: E FORM: E FORM: E FORM: Compatible E Compatible EM: DOS MESS: MBER: US/09/050,516  1: N DATA: MBER: 35,441 CTHENDAMATION: CHETYL L. UMBER: 35,441 CTHENDAMATION: 17/935-1729 1938-2623  20 ID NO: 47: | CLASSIFICATION: CLASSIFICATION: CLASSIFICATION: PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/828, FILLING DATE: 31-MAR-1997 ATTORNEY/AGENT INFORMATION: NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441 REFERENCE/DOCKET NUMBER: 60 TELECOMMUNICATION INFORMATION: TELEFONE: 847/935-1729 TELEFAX: 847/938-2623 TELEFAX: 847/938-2623 INFORMATION FOR SEQ ID NO: 47:   | OF INVE<br>SPONDENCE<br>SPONDENCE<br>RESSEE:<br>10<br>Y: Abbo<br>TE: IL<br>NTRY: U<br>NTRY: U | 44   |
|---|--|---|--|
| ₽   | DATE: LICATION DATA: TICATION DATA: TION NUMBER: 08/828,855 DATE: 31-MAR-1997 AGENT INFORMATION: BECKET, Cheryl L. ATION NUMBER: 35,441 CE/DOCKET NUMBER: 6065.US.P1 CE/DOCKET NUMBER: 6065.US.P1 NICATION INFORMATION: NICATION INFORMATION | boratories ark Road  ark Road  e ible ible is   | ION US/09050516  G-MEDEL, PATRICIA MAURICE TIS, TRACEY L. AN, PAULA N. OS, EDWARD N. OS, EDWARD N. OS, ETEVEN C. MICHAEL R. MICHAEL R. MICHAEL R. MICHAEL D. S'S-RAPP, LISA L, JOHN C. S'S-RAPP, LISA L, JOHN C. S'S-RAPP, SISA L, JOHN C. S'S-RAPP, SISA L, JOHN C. S'S-RAPP, LISA L'STRACENTS AND METHODS USEFUL S'S-RAPP, L'STRACENTS AND MET |

SEQUENCE CHARACTERISTICS:

LENGTH: 215 amino acids
TYPE: amino acid
STRANDEDNESS: single

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US-10-278-547-47
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.
Best Local Similarity 100.
Matches 215; Conservative
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MOLECULE TYPE:
                                                                                                                                                                    COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/278,547

FILING DATE: 23-Oct-2002

CLASSIFICATION: CUnknown>
                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSES: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 49
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NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIP: 60064-3500
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E: No. 6627414e
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HAYDEN, MARK
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Pred. No. 8.9e-113;
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TOPOLOGY: linear

MOLECULE TYPE: NO. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO:
US-10-278-547-47
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US-09-050-516-42
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Best Local Similarity
                                                                                                                                                                                                                                                                                                 APPLICANT: KLASS, MICHAEL R.
APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUBE, STEPHEN D.
TITLE OF INVENTION: FOR DETECTION
TITLE OF INVENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: BILLING
APPLICANT: COHEN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
              COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                       COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                               STREET: 100 Abbot
CITY: Abbott Park
STATE: IL
APPLICATION NUMBER: US/09/050,516
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TELEPHONE: 847/935-1729
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAYDEN, MARK
HODGES, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BILLING-MEDEL,
                                                                                                                                                                                                                                                                                                     REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-278-547-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 42, Application Patent No. 6660834
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH:
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: PaetSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                  TITLE OF
                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      525 VWGWEVAGAPALRIQKSQSSDILLERERESVIRREQEVAEERRNALFPEVFSPTFDENSDQ 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       645
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                   COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      679 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/10278547
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                                                                                                                                                                                                                                                 HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                             COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                    BILLING-MEDEL,
COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                      GRANADOS,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 1132; DB 2; 100.0%; Pred. No. 5e-112; ... Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08/828,855
                                                                                                                                                                                                                                     TRACT
                                                                                                                                                                                                                                                                                                                                                   EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          42:
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                                                                                                                                                                                                                                                                                                                                                                                                                                     PATRICIA
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RESULT 5
US-09-050-516-43
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 215; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: «Unknown»
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                   APPLICANT:
                                                                   TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                       APPLICANT:
                              CORRESPONDENCE ADDRESS:
                                                    NUMBER OF SEQUENCES:
                                                                                                                            APPLICANT:
                                                                                                                                                                                                  APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6085.US
TELECHONE: 847/935-1729
TELECHONE: 847/938-2623
                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: <UI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 NSRSSSQASGITGSYSVSESPFPSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/050,516 FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                Application US/09050516
100 Abbott Park Road
                                                                  HAYDEN, MARK
HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
                                                                                                                                                                                                                                                                                   COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                       GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                    GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                          BILLING-MEDEL, PATRICIA COHEN, MAURICE
                  Abbott Laboratories
                                                      49
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Pred. No. 5e-112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

60064-3500

USA

STATE: I

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 43, Applicati
Patent No. 6660834
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION UMBER: 08/828,85
APPLICATION NUMBER: 08/828,85
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS:
TOPOLOGY: line
MOLECULE TYPE: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 100.
mes 36; Conservative
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                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                      TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
 CURRENT
                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
NT APPLICATION DATA:
                                                                                                          ZIP: 60064-3500
                                                                                                                                                             CITY: Abbott Park
                                                                                                                             COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/10278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
E: No. 6627414e
                                                                                                                                                                                                                                                                                                         HODGES, STEVEN C. KLASS, MICHAEL R. KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                             COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                GRANADOS,
                                                                                                                                                                                                                                                                                                                                                          HAYDEN, MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                         COHEN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08/828,855
                                                                                                                                                                                                                                                        TRACT
                                                                                                                                                                                                                                                                                                                                                                              EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 45,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No. 6627414
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                              APPLICANT: KRATOCHVI
APPLICANT: ROBERTS-R
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                SOFTWARE: FASTSEQ FOR Windows Version 2.0 CUREENT APPLICATION DATA:
APPLICATION UMBER: US/09/050,516
FILING DATE:
                                                                                                                   ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                             Local Similarity 100.
mes 36; Conservative
                                                                             COMPUTER: IBM CONTROL OPERATING SYSTEM:
CLASSIFICATION:
                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: No. 6660834e
SEQUENCE DESCRIPTION: SEQ ID NO: 43:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/09/050,516 FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 36 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                     RUSSELL, JOHN C.
STROUPE, STEPHEN P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Application US/09050516
                                                                                                                                                                                                                                                                                                                                                                                   HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
                                                                                                                                                                          USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BILLING-MEDEL, PATRICIA
                                                                                                     IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16.7%; Score 189; DB 2;
100.0%; Pred. No. 3.8e-13;
rative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            MARK
                                                                                                                                                                                                                                                                                                                  STEPHEN D.
REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                  TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 36;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No. 6660
GENERAL INFOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 45,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION NOWBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
PILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
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                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
NAME: Becker, Cheryl L..
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Application US/10278547
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Pred. No. 1.1e-11;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 46,
                                                                                                                                                                                                                                                                         COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 45:
                                                                                ATTORNEY/AGENT INFORMATION:
NAME: Becker Cheryl 1
                                                                                                               CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8
FILING DATE: 31-MAR-1997
                 NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                 SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
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                                                                                                                                                                                                                               COMPUTER: IBM CON OPERATING SYSTEM: SOPTWARE: FastSE(
                                                                                                                                                                                                                                                                                                                                                                 STREET: 100 Abbott
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                 STATE:
                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     35;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                  100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                 IBM Compatible
SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                   Abbott Laboratories
                                                                                                                                                                                                                                                                                    Diskette
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRACT
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                                                                                                                                    08/828,855
                                                                                                                                                                                                 US/09/050,516
                                                             35,441
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                                                   6065.US.P1
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NFORMATION FOR SEQ ID NO:

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US-10-278-547-46
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GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                                                                                                                                        TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
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LENGTH: 33 amino acide
TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
TO APPLICATI
                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
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COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 46:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             157 EDPVDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 EDSVDSAPPGORKKEOWYAGINPSDGINSEVLE 33
                                                                                                           LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/050,516 FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 847/938-2623
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KLASS, MICHAEL R.

KRATOCHVIL, JON D.

INVENTION: REAGENTS AND METHODS USEFUL

FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GRANADOS,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
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Pred. No. 2.8e-11;
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                                                                           ; MOLECULE TYPE: No. 6627414e US-09-050-516-44
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Best Local 9
Query Match 12.9%; Score 146; DB 2; 1
Best Local Similarity 100.0%; Pred. No. 1.2e-08;
Matches 31; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.
TITLE OF INVENTION: REAGENTS AND M.
TITLE OF INVENTION: FOR DETECTING
TITLE OF INVENTION: TRACT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,85
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELECHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION: APPLICANT: BILLIN
                                                                                                                                                                                                   TELEX:
INFORMATION FOR SEQ ID NO:
                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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APPLICANT:
APPLICANT:
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APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
CLASSIFICATION:
                                                                                                              TOPOLOGY:
                                                                                                                             STRANDEDNESS:
                                                                                                                                                                                                                                        TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              157 EDPVDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
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                                                                                                              linear
                                                                                                                          single
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97.0%; Pred. No. 2.8e-11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STEPHEN D.
REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                     08/828,855
                                                                                                                                                                                                       44:
                                                                                                                                                                                                                                                                                             6065.US.P1
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                                     Length 31;
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Indels

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RLQKSQSSDLLERERESVLRREQEVAEERRN 103

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TOPOLOGY: 11near

HOLECULE TYPE: NO. 6660834e

SEQUENCE DESCRIPTION: SEQ ID NO: 44:

US-10-278-547-44
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US-10-278-547-44
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Best Local Similarity
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                                                                                                                                                                                                                                                                                   INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: PastSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: -Unknown>
                                                                                                                                                                                                                                                                 RMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                  REPERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
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                                 73
                                                                    31;
                         RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                             LENGTH: 31 amino acids TYPE: amino acid STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RLQKSQSSDLLERERESVLRREQEVAEERRN 31
 RLOKSOSSDLLERERESVLRREQEVACERRN 31
                                                                                                                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Application US/10278547
                                                                                                                                                                                                                                                                                                    ELEX: <Unknown>
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KRATOCKVIL, JON D.
                                                                      Conservative
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FRIEDMAN, PAULA N.
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                                                             12.9%; Er
100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EDWARD N.
                                                                                   Score 146; DB 2;
Pred. No. 1.2e-08;
                                                                    Mismatches
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RESULT 13

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                                                                                                                                                                                                                                                                              US-09-457-040B-18
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Best Local Similarity 22.6%;
Conservative
                                                                                                                                                                                                Query Match
Best Local S
Matches 45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No. 6387641 
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18, Application US/09457040B Patent No. 6387641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/921,099A
CURRENT FILING DATE: 2001-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Mammalian DNA Binding Membrane-Associated Protein-encoding Gene a FILE REFERENCE: 00-617-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Hefeneider, Steven APPLICANT: Merkins, Louise
                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/457,040B CURRENT FILING DATE: 1999-12-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Vertex Pharmaceuticals Incorporated APPLICANT: Bellon, Steve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 21
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                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: VPI/98-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 1048
TYPE: PRT
ORGANISM: Caenorhabditis elegans
                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                               LENGTH: 699
TYPE: PRT
ORGANISM: EMENI - Aspergillus Nidulans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PPLICANT: Bellon, Steve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               572 LPGGPVVMIPQQQMVPPPQSMTPVGGPMGPMGPMTPSI--PVQVPPNTMWTATSPTGSVI 629
                                                                                                                 351 WEVKARLEIDROVONELDKIRKRFECEVODRVAQEVEKORRNANYREDASIRSSGHSSOM 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   630 YPAASPPGOPPHTIWIQSI----GVFKRKSNFLKIVR 662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      163 ----APPGORKKEOWYAGINPSDGI---NSEVLEAIR 192
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  162
                                       411 SSSNSEDSDFPSSTDISQLSLESPTNKAAKLPKKESRTPFTRSKTVVDSPMDIQMAEPSP 470
                                                                            122 SRSSSQASGITGSYSVSESPFFSPIH-----LHSNVAWT-----VEDPVD-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 55 QAQVPHVWGWEVAGAPALRIQKSQSSDLLERERESYLRREQEVAEERRNALFPEVFSPT- 113
                                                                                                                                                      64 WEVAGAPALRIOKSOSSDILERERESVI.--RREQEVAEERRNALFPEVFSPTPDENSDON 121
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                                                                                                                                                                                                    45
                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PNRMGYSSDAPPFIPSHQQQPP---PQ-----FFNSQHLPQRFRGGRQRGAPPPPP 525
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Bennett, Robert
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--SAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAERWESR-----IYA 210
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                                                                                                                                                                                                    Conservative
                                                                                                                                                                                              8.3%; Score 93.5; DB 24.3%; Pred. No. 0.53; tive 19; Mismatches
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22.6%; Pred. No. 0.14;
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                                                                                                                                                                                                                                       Length 699;
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                                                                                                                                                                                                    Gaps
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                                                                                  161
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Sequence 2, Application US/09294531B
Sequence 2, Application US/09294531B
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Sheppard, Darrell C.
APPLICANT: Conklin, Darrell C.
APPLICANT: Grossmann, Angelika
TITLE OF INVENTION: SOLUBLE PROTEIN ZTMPO-1
FILE REFERENCE: 97-67
CURRENT APPLICATION NUMBER: US/09/294,531B
CURRENT APPLICATION NUMBER: 60/082,513
PRIOR APPLICATION NUMBER: 60/082,513
PRIOR FILING DATE: 1998-04-21
NUMBER OF SEQ ID NOS: 35
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 2
LENGTH: 876
TYPE: PAT
ORGANISM: Homo sapiens
Search completed: March 3, 2006, 13:38:55 Job time : 30.0005 secs
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                                                                                                                                       511 DDEDD 515
                                                                                                     193 - VTRHKNAMAERWESRIYASEEDD 215
                                                                                                                                                                                                          211 SEEDD 215
                                                                    784 DVDPHQFPAVHRWKSAVLCYSPSD 807
                                                                                                                                                                                                                                                                                625 EAAEP--GGPHSSRNGLCHPLNHSRTLAGKRPKAPHGEEAHLPPVSDLTVE-FDKLNLQN 681
                                                                                                                                                                                                                                                                                                             19 EASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEP--QQAQVPHVWGWEVAGAPALRLQK 76
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
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Gapop 10.0 , Gapext 0.5
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Match Length DB
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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US-10-278-547-47

US-10-646-873-47

US-09-050-516-42

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US-10-106-698-4761

US-10-106-698-4761

US-09-050-516-43
                                     US-10-278-547-43

US-10-646-673-43

US-10-646-673-45

US-10-646-673-45

US-10-646-673-45

US-10-646-673-46

US-10-646-673-46

US-10-646-673-46

US-10-646-673-46

US-10-646-673-44

US-10-671-98-3-44

US-10-671-993-748

US-10-408-765A-2018

US-10-719-993-748

US-10-719-993-745

US-10-719-993-745
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474, Appl
574, Appl
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| 45                   | 44                | 43                   | 42                   | 41              | 40               | 39                | 38                   | 37               | 36               | 35                  | 34                  | u<br>u            | 32                 | 31                | 30                | 29                | 28                |
|----------------------|-------------------|----------------------|----------------------|-----------------|------------------|-------------------|----------------------|------------------|------------------|---------------------|---------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| 94.5                 | 94.5              | 96                   | 98                   | 99              | 101.5            | 101.5             | 102                  | 111              | 114.5            | 114.5               | 114.5               | 118               | 124                | 127.5             | 127.5             | 127.5             | 127.5             |
| 8.3                  | 8.3               | 8.5                  | 8.7                  | 8.7             | 9.0              | 9.0               | 9.0                  | 9.8              | 10.1             | 10.1                | 10.1                | 10.4              | 11.0               | 11.3              | 11.3              | 11.3              | 11.3              |
| 1121                 | 1071              | 851                  | 869                  | 629             | 1048             | 686               | 956                  | 1520             | 1493             | 1454                | 324                 | 1092              | 948                | 1337              | 1337              | 1335              | 1103              |
| 4.                   | 4                 | 4                    | 4                    | 4.              | v                | 6                 | 4                    | ហ                | 4                | 4                   | v                   | ຫ                 | 4                  | v                 | ഗ                 | ທ                 | ហ                 |
| US-10-437-963-152820 | US-10-188-248-24  | US-10-437-963-204825 | US-10-437-963-204823 | US-10-384-919-2 | US-10-619-992-11 | US-11-097-143-768 | US-10-437-963-167398 | US-10-467-555-14 | US-10-211-462-59 | US-10-408-765A-1328 | US-10-450-763-36719 | US-10-719-993-744 | US-10-094-749-2942 | US-10-719-993-747 | US-10-719-993-743 | US-10-719-993-742 | US-10-631-467-691 |
| Sequence 152820,     | Sequence 24, Appr |                      |                      |                 | ) <u> </u>       | 768               |                      |                  | ,                | 144                 |                     |                   | 7747               | ) 4<br>) .        | 1 4 6             | 1 4 4             |                   |

## ALIGNMENTS

| OB-050-516-47  OB-050-516-47  Bequence 47, Application US/09050516  Bequence 47, Application US/09050516  Betent No. US20010010904A1  GERRAL INFORMATION  APPLICANT: COHEN, MURICE  APPLICANT: COHEN, MURICE  APPLICANT: COHEN, MURICE  APPLICANT: GORDON, UULLAN  APPLICANT: HAYDEN, MARK  APPLICANT: HAYDEN, MARK  APPLICANT: KLASS, MICHAEL R.  APPLICANT: KLASS, MICHAEL R.  APPLICANT: ROBERTS-RAPP, LISA  APPLICANT: LISA  APPLICANT: LISA  APPLICANTON NUMBER: JOBA  COMPUTER: LISA  APPLICANTION NUMBER: JOBA  APPLICANTION:  REGISTRATION NUMBER: JOBA  APPLICANTION:  PRIOR APPLICATION NUMBER: JOBA  APPLICANTION:  APPLICANTION NUMBER: JOBA  APPLICANTION:  APPLICANTION NUMBER: JOBA  APPLICANTION:  APPLICANTION NUMBER: JOBA  APPLICANTION:  APPLICANTION:  APPLICANTION NUMBER: JOBA  APPLICANTION:  APPLIC |  | US  |
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| ROINTESTI  | HODGES, STEVEN C. KLASS, MICHAEL R. KRATOCHVII, JON D. ROBERTS-RAPP, LISA RUSSELL, JOHN C. STROUPE, STEPHEN D. NVENTION: REAGENTS AND METHODS USEFUL INVENTION: FOR DETECTING DISEASES OF THE SEQUENCES: 49 EENCE ADDRESS: EE: Abbott Laboratories 110 Abbott Park Road bbott Park IL IL IL SEADABLE FORM: REAGENTS ROAD BEEL ADDRESS: EIM Compatible READABLE FORM: READABLE FORM: READABLE FORM: READABLE FORM: READABLE FORM: ID ON COMPATION REATION NUMBER: US/09/050,516 RATION NUMBER: 08/828,855 AATE: 31-MAR-1997 AGENT INFORMATION: BECKET, NUMBER: 35,441 TELDOCKET NUMBER: 35,441 TELDOCKET NUMBER: 6065.US.P1 NICATION INFORMATION: NE: 847/938-2623 FOR SEQ ID NO: 47: | 904A1 904A1  G-MEDEL, MAURICE TE, TRACE AN, PAULA AN, JULIAN OS, EDWAR MARK |
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SEQUENCE CHARACTERISTICS

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Publication No. US2003
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 215;
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                                                                                                                                                                                                                                                                                            COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-0ct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
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HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATCCHVIL, JON D.
KR
                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: ADDOLT Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          н
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                                                                                                                                                APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
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NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
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TOPOLOGY: linear type: No. US20030082619A1e SEQUENCE DESCRIPTION: SEQ ID NO: 47: US-10-278-547-47
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US-10-646-873-47
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Matches 215; Conserva
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INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
APPLICATION NUMBER: US/10/646,873
EILING DATE: 22-Aug-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARE: PRASESQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                             KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 49
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                                                                                                                                                                                                                                                                                             ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
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                                                                                                                                                                                                                                                        COUNTRY: USA
                                                                                                                                                                                                                                        ZIP: 60064-3500
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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Pred. No. 6
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TOPOLOGY: linear

MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 47:
US-10-646-873-47
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Best Local Similarity
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INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
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APPLICANT:
APPLICANT:
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                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                           APPLICANT:
           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                               TITLE OF INVENTION:
                                                                                                                                                                                                                 APPLICANT
                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                       PPLICANT:
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                                                     COUNTRY:
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US20010010904A1
                                           60064-3500
                                                                                        Abbott Park
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REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
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TYPE: amino acid
TYPE: amino acid
TYPE: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 847/938-2623
                                                                                                                                                                                                                           HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
                                                                                                                                                                                                                                                                                                                        COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                       COHEN, MAURICE
                                                                                                                                                                                                              STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                     BILLING-MEDEL, PATRICIA
IBM Compatible
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                                                                                                                                                                                    THE GASTROINTESTINAL
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RESULT 5
US-10-278-547-42
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                                                                                                                                                                                                                                                                                                                                                                        Sequence 42, Appublication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acid
                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 08/8: FILING DATE: 31-MAR-1997 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: No. US20010010904A1e
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FastSEQ for Windows Version
                    NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                            Application US/10278547
                                                                                                                                       KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                   COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                  BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                            HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
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                                                                                                                     FOR DETECTING DISEASES OF THE GASTROINTESTINAL
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Pred. No. 2.7e-93;
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STATE: IL ZIP: 60064-3500 COUNTRY: USA

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RESULT 6
US-10-646-873-42
; Sequence 42, Application
; Publication No. US20040
; Publication No. US20040
; GENERAL INFORMATION:
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Best Local Similarity
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INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FASTSEQ fo CURRENT APPLICATION DATA:
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                                                                                  TITLE OF
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  CORRESPONDENCE ADDRESS:
                       NUMBER OF SEQUENCES: 49
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TYPE: amino acid
STRANDEDNESS: single
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APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
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                                                                                                                                                                                                                                                                                                                                                         Application US/10646873
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                                           HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                       US20040043406A1
                                                                                                                                                                                    COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                      COHEN, MAURICE
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2.7e-93;
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                                                                                                                                                                                      Sequence 4761, Application US/10106698 Publication No. US20030109690A1 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
FILE REFERENCE: PA005P1
CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR PILING DATE: 2000-09-28
PRIOR PILING DATE: 1909-09-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 60064-3500
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TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
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REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMUNICATION IMPORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                               121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 180
645 DGINSEVLEAIRVIRHKNAMAERWESRIYASEEDD 679
                                        181 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                       585 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                              525 VWGWEVAGAPALRIQKSQSSDILERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                      465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH 524
                                                                                                                                                                                                             61 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 120
                                                                                                                                                                                                                                                                                                    1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/09/050,516 FILING DATE: 30-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 679 amino acids
                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 1132; DB 4; 100.0%; Pred. No. 2.7e-93; tive 0; Mismatches 0;
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                                                                                         644
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OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids NAME/KEY: MISC PEATURE LOCATION: (116) COTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids US-10-106-698-4761
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US-10-029-386-33676
RESULT 9
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                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 34288
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 33676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 33676, Application US/10029386 Publication No. US20030194704A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                        Matches
                                                                                                                                                            Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
FILE REFERENCE: AEOMICA-X-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 8564
SOFTWARE: PatentIn Ver. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US 60/163,280 PRIOR FILING DATE: 1999-11-03
                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/029,386
CURRENT FILING DATE: 2001-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Penn, Sharron G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                           FEATURE:
OTHER INFORMATION: MAP TO AC004030.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         144 SPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAWAER 203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     204 WESRIYASEEDD 215
                                                                                                131 ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24 PRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLL
                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFF 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SPIHLHSNVAWTVEDXVDSAPPGQRKKEQWYAGINPSDGINSEVLEAIRVTRHKNAMAER 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ERERESVLRREQEVXEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFF 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WESRIYASEEDD 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  74.1%;
87.0%;
                                                                                                                                                            20.8%;
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                                                                                                                                                            Score 236; DB 4; 1; Pred. No. 6.2e-14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 839; DB 4;
Pred. No. 1.3e-67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                             Mismatches
                                                                                                                                                                                                                                               0.42
                                                                                                                                                                                 Length 43;
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US-09-050-516-43

RESULT 10 US-10-278-547-43

Sequence 43, Application US/10278547 Publication No. US20030082619A1 GENERAL INFORMATION:

BILLING-MEDEL, PATRICIA COHEN, MAURICE COLPITTS, TRACEY L.

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                                                                                                                          US-09-050-516-43
                                                            Matches
                                                                            Best Local
                                                                                         Query Match
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                                                                                                                                                                                   INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION:
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                                                                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                     STRANDEDNESS: single
TOPOLOGY: linear
LECULE TYPE: No. US20010010904A1e
                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                   TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Abbott Laboratories
                                                            36;
                               1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                            Similarity
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KLASS, MICHAEL R.
KRATOCHULL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/09050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GRANADOS,
                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COLPITTS, TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IBM Compatible
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                                                                           16.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                               08/828,855
                                                                                                                                                                                                                                                                                                                                                                                                                                                             US/09/050,516
                                                                                                                                                                                                                                       43:
                                                                                                                                                                                                                                                                                                                    6065.US.P1
                                                              0;
                                                                            Score 189; pred. No.
                                                               Mismatches
                                                                            8.7e-10;
                                                                                             DB 3;
   36
                                                                                         Length 36;
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RESULT 11
US-10-646-873-43
/ Sequence 43, Application US/10646873
/ Publication No. US20040043406A1
/ GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATR:
COHEN, MAURICE
COHEN, MAURICE
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:

APPLICATION UNMBER: US/09/050,516

APPLICATION NUMBER: US/09/050,516

FILING DATE: <Unknown:
APPLICATION NUMBER: 08/828,855

FILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 35,441

REFERENCE/DOCKET NUMBER: 6065.US.P1

TELEPHONE: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 43:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                  36;
                                                                                                                                                                                                                                                                                                                               1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                           MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/10/278,547 FILING DATE: 23-Oct-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Compatible OPERATING SYSTEM: DOS SOFTWARE: FastSEQ for Wil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 36 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                    BILLING-MEDEL, PATRICIA COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GRANADOS, EDWARD N.
HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
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                                                                                                                                                                                                                                                                                                                                                                                   16.7%; Score 189; DB 4; 100.0%; Pred. No. 8.7e-10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EDWARD N.
                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                    Length 36;
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US-09-050-516-45
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                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: BILLIN
                                                        APPLICANT:
                                                                                        APPLICANT:
                      APPLICANT:
TITLE OF I
                                                                                                                                                                   APPLICANT:
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     TITLE OF INVENTION:
                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                    INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 60064-3500
                                                                                                                                                                   GRANADOS,
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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: NO. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 43:
US-10-646-873-43
                                                                                                                                                                                                                                                                                                                                                              Sequence 45, Application US/09050516 Patent No. US20010010904A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM COMPACTION
COMPUTER: IBM COMPACTION
OPERATING SYSTEM: DOS
SOFTWARE: FASESEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: -(Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 09/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION UMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                          COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
ROSEELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                HAYDEN, MARK
                                                                                                                                                                                                                                                                                                                       BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16.7%; Score 189; DB 4;
100.0%; Pred. No. 8.7e-10;
ive 0; Mismatches 0;
                                                                                                                                                                                                          EDWARD N.
                                                                                                                                                                                                                                                                           TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 36;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott.Laboratories

100 Abbott Park Road

CITY: Abbott Park

TITLE OF INVENTION:

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; MOLECULE TYPE: No. US20010010904Ale
US-09-050-516-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 100.
Conservative
                                                                                                                                                                                                                                                                                                                                                                     Sequence 45, Application US/10278547 Publication No. US20030082619A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOPTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM:
                                                                                                                        HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: ADDOLL LABORATORIES
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 ALFPEVESPTEDENSDONSRSSSOASGITGSYSVS 35
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IP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   847/938-2623
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                                                                                                                                                                                                                                                                                                                                                    BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                         COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                GRANADOS,
                                                                                                                                                                                                                                                                                                                                  OHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single
                USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15.5%;
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                                                                                                                                                                                                                                                                EDWARD N.
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Pred. No. 1.5e-08;
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; MOLECULE TYPE: NO. US20030082619A1e; SEQUENCE DESCRIPTION: SEQ ID NO: 45: US-10-278-547-45
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Sequence 45, Application US/10646873
Publication No. US20040043406A1
GENERAL INFORMATION:
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                              COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: single
                   COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                     ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 847/938-2623
                                                                                                                                                                     STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 35 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                           GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                          HODGES, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15.5%; Score 175; DB 4;
100.0%; Pred. No. 1.5e-08;
                                                                                                                                                                                                                                                                                                                   FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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TOPOLOGY: linear to MOLECULE TYPE: NO. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 45: US-10-646-873-45
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US-09-050-516-46
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Patent No. US20010010904A1
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TELEX: cluknown:
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
                                                                                                                                                                                                                                                                                                                     APPLICANT: KRATOCHVI
APPLICANT: ROBERTS-R
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/99/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
REGISTRATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                     STATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/09050516
                                                                                                                                                                                                                                                                                                                   HAYDEN, MARK
HADGES, STEVER C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
TOTELEDES. AACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15.5%; Score 175; DB 4; 1 100.0%; Pred. No. 1.5e-08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
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Search completed: March
Job time: 94.4412 secs
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                                                                                                                                           Query Match 15.1%;
Best Local Similarity 97.0%;
Matches 32; Conservative
                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Becker, Cheryl L.
REGISTATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 08/8
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                     TELEX:
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                                                                                           157 EDPVDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
                                                                        1 EDSVDSAPPGORKKEOWYAGINPSDGINSEVLE 33
               3, 2006, 14:18:11
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Pred. No. 3.3e-08;
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                                                                                                                                                                                 Length 33;
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protein

March

Title: Perfect score:

Minimum DB Maximum DB

Database

Searched:

Scoring table: Sequence:

Sequence Sequence Sequence Sequence Sequence

920, App
73, App
73, App
184, App
988, App
242, App
3307, App
1050, Ap
1050, App
1070, App
1070, App
1077, App
1077,

Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence

Sequence

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Post-processing: Minimum Match 0%
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              seq length: 0
seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Published Applications AA_New:*

1: /cgn2 6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

2: /cgn2-6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

3: /cgn2 6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

4: /cgn2-6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

5: /cgn2-6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

6: /cgn2-6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

7: /cgn2-6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*

8: /cgn2-6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*
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Gapop 10.0 ,
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1132
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Listing first 45 s
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length DB
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    388
1346
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US-11-072-512-3421
US-10-858-730-83
US-10-467-657-4780
US-11-060-005-2
US-11-080-686-10913
US-11-098-686-10913
US-11-081-512-3485
US-11-072-512-2485
US-11-072-512-3588
US-11-072-512-3588
US-11-072-512-3588
US-11-072-512-3514
US-11-087-099-4237
US-11-087-099-1375
US-11-1072-512-375
US-11-1082-545-13
US-10-982-545-13
US-10-982-545-13
US-10-933-1158-160
US-11-143-984A-114
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                         S-10-131-826A-160
S-10-973-115B-160
S-11-143-984A-114
S-10-995-561-918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search time 10.2381 Seconds (without alignments)
420.009 Million cell update
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Sequence 83,
Sequence 4780
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Sequence
Sequence
Sequence
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    sequence
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Sequence 3421, Ap
                                                                                                                        83, Appl
2, Appl
2, Appl
2022, Ap
10913, Ap
10913, Ap
2485, Ap
2485, Ap
2588, Ap
245, Appl
245, Appl
2479, Ap
2779, Ap
2
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; Sequence 12026, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; TILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 12026
; LENGTH: 386
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-087-099-12026
Sequence 3421, Application US/11072512
Publication No. US20060029945A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: SUGIYAMA, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 1
US-11-087-099-12026
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                                                                                                                                                                        RESULT 2
US-11-072-512-3421
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Best Local S
Matches 45
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                                                                                                                                                                                                                                                                                                                                                                                                                          210 ATAAMEAVEAQQQQITFDRLLAMVDAERTYHQNVADILNKLHDEMLNARPHEESDNN---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8.6%; Score 97.5; D ilarity 24.7%; Pred. No. 0.1; Conservative 30; Mismatches
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US-11-072-175-184

US-10-99-561-988

US-11-072-175-242

US-11-072-175-242

US-11-072-512-340

US-10-330-773-42

US-11-169-041-170

US-11-169-041-170

US-11-126-313-33

US-10-330-773-907

US-11-126-313-33

US-10-850-465-2

US-11-182-885-3

US-11-182-885-3

US-11-072-512-3477

US-11-072-512-3477
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US-11-087-099-5370
US-11-044-051-73
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45;

Gaps

209 98

266

Result

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Score

97.5 88.5 87 86 82.5 80.5

APPLICANT: APPLICANT: APPLICANT:

SONO

YURI YUUKO APPLICANT:

ISHII, SHIZUKO YAMAMOTO, JUN-ICHI

APPLICANT:

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US-10-858-730-83
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; ORGANISM: Homo sapiens
US-11-072-512-3421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 7.8%; Score 88.5; DB 7; Best Local Similarity 22.1%; Pred. No. 0.69; Matches 42; Conservative 33; Mismatches 86;
                                                                                                                                                                                                                                                                                                                                                                     Sequence 83, Application US/10858730 Publication No. US20050255568A1
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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                                                      APPLICANT: Walbridge, Michael J.
APPLICANT: Yorgey, Peter S.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
TITLE OF INVENTION: PRODUCTION
FILE REFERENCE: 14184-030001
CURRENT APPLICATION NUMBER: US/10/658,730
CURRENT FILING DATE: 2004-06-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
PRIOR APPLICATION NUMBER: US 60/475,000 PRIOR FILING DATE: 2003-05-30 PRIOR APPLICATION NUMBER: US 60/551,860
                                                                                                                                                                                                                                                                                                               APPLICANT: Bailey, Richard B. APPLICANT: Blomquist, Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
                                                                                                                                                                                                                                                                           APPLICANT:
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TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4 RHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWG
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NAGAI, KEIICHI
IRIE, RYOTARO
TAMECHIKA, ICHIRO
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                                                                                                                                                                        Trueheart, Joshua
Walbridge, Michael J.
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O'Toole, George
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEKI, NACHIKO
YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
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RESULT 5 US-11-060-005-2

Sequence 2, Application US/11060005
Publication No. US20050260693A1
GENERAL INFORMATION:
APPLICANT: Irwin H. Gelman

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Sequence 4780, Application US/10467657

Publication No. US20050260581A1

GENERAL INFORMATION:
APPLICANT: CHIRON SpA
APPLICANT: FONTANA Maria Rita
APPLICANT: FIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NU
FILE REFERENCE:
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NUMBER OF SEQ ID NOS: 364
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 83
                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SegWin99, version 1.04
SEQ ID NO 4780
LENGTH: 736
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CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT ORGANISM: Thermobifida fusca
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                                                                                                                                                                                                                                                                                                  Match 7.6%;
Local Similarity 21.6%;
 567
                                 170 KEQWYAGINPSD---GINSEVLEA 190
                                                                                                     117 NSDONSRSSSOASGITGSYSVSESPFFS-----PIHLHSNVAWTVEDPVDSAPPGORK 169
                                                                                                                                         476 -----AGTARTSAKSIQTASEAETPPENQVSKNKAADNETEASL-----SEVPSE
                                                                                                                                                                                                              425 PRPEADAAQTPVQTASAAAMPSEGKTAGPVSHQENNDVPPWE------DAPDKTETA 475
                                                                                                                                                                         57 QVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDE 116
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 LSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWG--
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                                                                    NPIQATPNDEAVETETFAHEAPAEPFYGFPDNDCPP
                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                   25; Mismatches
                                                                                                                                                                                                                                                                                                  Score 86; DB Pred. No. 2.7;
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Pred. No.
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 586
                                                                                                                                                                                                                                                                                                                      DB 6; Length 736;
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                                                                       EDGVEIPPD---
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62;

Gaps

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US-11-072-512-2022
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Best Local S
Matches 55
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Publication No. US20060029945A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 08/665,401 PRIOR FILING DATE: 1996-06-18
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PRIOR PILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 08/978,277
PRIOR FILING DATE: 1997-11-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: TUMOR SUPPRESSOR GENE PILE REFERENCE: A30558-A-FWC-Y-A 070156.0597 CURRENT APPLICATION NUMBER: US/A 1/060,005 CURRENT FILING DATE: 2005-02-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Rattue norvegicus
11-060-005-2
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                                                          APPLICANT: SEKI, NAOHIKO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOVUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: NAGHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OP INVENTION: Novel full length cDNA
FILE REPERENCE: 084335-0191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     D ID NO 2
LENGTH: 1346
T APPLICATION NUMBER: US/11/072,512
T FILING DATE: 2005-03-07
APPLICATION NUMBER: US 60/350,978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     318 RORSRTDAVPASTQEQDQAQGSSSPEPAGSPSEGEGVSTWESFKRLVTPRKKSKSKLEEK 377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  548 EGKDAHDDMVTSEVDFTSEAVTATETSEALRTEEVTEASGAEE 590
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                                                                                                                                                                                                       OTSUKA, KAORU
NAGAI, KEIICHI
IRIE, RYOTARO
TAMECHIKA, ICHIRO
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OTSUKI, TETSUJI
WAKAMATSU, AI
SATO, HIROYUKI
                                                                                                                                                                                                                                                                                                                                     AMAMOTO, JUN-ICHI
                                                                                                                                                                                                                                                                SUKA,
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                                                                                                                                                                                                                                                                                              YURI
                                                                                                                                                                                                                                                                                                                                                       SHIZUKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAKAO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 82.5;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----MEAQGNAELPSCWGCVVSEELSKTLVHTVSV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches 109;
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SEQ ID NO 2022
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: FastSEQ for Windows Version SEQ ID NO 10913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 10913, Application US/11098686 Publication No. US20060024696A1
                                                                                                                                                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                                                                             Query Match
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PRIOR APPLICATION NUMBER: JP
PRIOR FILING DATE: 2001-11-05
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NUMBER OF SEQ ID NOS: 4096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: PCT/US03/31318
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: US 60/416,395
PRIOR FILING DATE: 2002-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Kapur, Vivek and Gebhart, Connie J.
TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND MET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: 09531-128001
CURRENT APPLICATION NUMBER: US/11/098,686
CURRENT FILING DATE: 2005-04-04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 390
                                                                                                                                                                                                                                                                                                                                            Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    174 NSQVLBIEKLNETMERORTEVARLONVLDLTGSDNKGGFENVLEBIÄELRR
                     190 A 190
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          161 DSAPPGORKKEOWYAGINPSDGINSEVLEAIRVTRHK 197
                                                                     191 LSLHQE---
                                                                                                              146 IHLHSNVAWTVEDPVDS------
                                                                                                                                                     144 -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           70 PALRIQKSQSSDLLERERESVLRRE-------QEVABERRNALFPEVFS 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18 QEASKPPRGCPQANRGVVRWE-----YFRLRPLRFRAPDEPQQAQVPHVWGWEVAGA 69
                                                                                                                                                                                               91
                                                                                                                                                                                                                                                                             50 PDEPQQAQVP-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ----EVSYQNDYISSMADPFKRRGYWYFMPPPPSSKVSSHSSQATKDSGVGLKYSASTPV
                                                                                                                                                                                        LRREGEVAEERRNALFPEVFSPTPDEN--SDQNSRSSSQASGITGSYS---VSESPFFSP 145
                                                                                                                                                                                                                                    POKPORLSIPLITSVKLITSNNSDNDEDWGDDGWDAPHPESSAVEHGMKODFLEOGO---
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                                                                     -GEPGDSFDTAKAKLEVFMQKRHEPPQQPTKKP---
                                                                                                                                                     -SLFSSVLNGTYSRNTISERGERDQSSASPSASSYQNGRLVDSSSSCP 190
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                                                                                                                                                                                                                                                                                                                          19;
                                                                                                                                                                                                                                                                               ------HVW---GWEVAGAPALRLQKSQSSDLLERERESV 90
                                                                                                                                                                                                                                                                                                                        Score 80.5; DB
Pred. No. 4.1;
19; Mismatches
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Pred. No. 3.
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                                                                                                            ----APPGORKKEOWYAGINPSDGINSEVLE 189
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                                                                                                                                                                                                                                                                                                                                                                 Length 390;
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; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-11-060-005-4
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US-11-060-005-4
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PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 08/665,401
PRIOR FILING DATE: 1996-06-18
PRIOR FILING DATE: 1996-06-18
PRIOR FILING DATE: 1996-04-19
NUMBER OF SEQ ID NOS: 35
                                                                                                                                                                                                                                                                  Sequence 2485, Application US/11072512 Publication No. US20060029945A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 4, Application US/11060005
Publication No. US20050260693A1
GENERAL INFORMATION:
APPLICANT: Irwin H. Gelman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 7.1%; Score 80; DB 7; Length 1596; Best Local Similarity 18.5%; Pred. No. 26; Matches 46; Conservative 37; Mismatches 93; Indels
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FILE REFERENCE: A30558-A-FWC-A-A 070156.0597
CURRENT APPLICATION NUMBER: US/11/060,005
CURRENT FILING DATE: 2005-02-17
                                                                               APPLICANT:
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                                                               APPLICANT:
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                                                                           SUGIYAMA, TOMOYASU
OTSUKI, TETSUJI
WAKAMATSU, AI
SATO, HIROYUKI
ISHII, SHIZUKO
YAMAMOTO, JUN-ICHI
ISONO, YUUKO
HIO, YURI
OTSUKA, KAORU
NAGAI, KEIICHI
IRIE, RYOTARO
TAMECHIKA, ICHIRO
                                                                                                                                                                                                                                                 ISOGAI, TAKAO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VSEELSKTLVH---TVSVAVIDGTRAVTSVEERSPSWISASVTEPLEHTAGEAMPPVEEV 916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAG--INPSDGINSEVLEAIRVT 194
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; LENGTH: 697
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-905
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; LENGTH: 287
; TYPE: PRT
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FILE REFERENCE: 004335-0191
CURRENT APPLICATION UNMEER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION UNMEER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR FILING DATE: 2002-01-25
PRIOR FILING DATE: 2001-11-05
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
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Publication No. US20050255114A1
GENERAL INFORMATION:
                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: pt SEQ genes Version 1.0 SEQ ID NO 905
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit
APPLICANT: Andarmani, Susan
APPLICANT: Andarmani, Susan
APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR PILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
NUMBER OF SEQ ID NOS: 1704
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Best Local Similarity 24.6%; Pred. No. 3.5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 KVPKQPLVLH------HPRMRTTKSPSKDMLE-----PEABLAEDLPTTKSTSVE 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            51 DEPQQAQVPHVWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVF 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                76 KSQSS----DLL-----ERERESVLRRE-QEVAEERRNALFPEVFSPTPDENSDQN- 121
                                       63 GPLEPWLVEAVKGAALVEAGLEGEARTPLAIPHTPWGRRPEBEAEDSGGPGEDRETLGLK 122
                                                                                  49 APDEPQQAQ-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          33; Conservative
                                                                                                                          3 LADRTGAPAPGVTRSSQPPRHMAPGQAPHQATPWRDAHPFFLLSPVMGLLSRAWSRLRGL 62
                                                                                                                                                                  6 LSESSGKPLSTKQEASKPPRGCP--QANRGVVRWE----YFRLRP------LRFR
                                                                                                                                                                                                              70;
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OTSUKA, MOTOYUKI
NAGAHARI, KENJI
                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                           7.0%;
                                                                                                                                                                                                              30;
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                                                                                                                                                                                                              Score 79.5; DB 6;
Pred. No. 10;
90; Mismatches 103;
                                                                                  -----VPHV-WG-----WEVAGAP-----ALRIQ 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 7; Length 287;
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                                                                                                                                                                                                              Indels 97;
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US-11-072-512-3588
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PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3588
LENGTH: 312
                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 60/350,978 PRIOR FILING DATE: 2002-01-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JICANT: MASUHO, YASUHIKO
JE OF INVENTION: Novel full length cDNA
REFERENCE: 084335-0191
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                                                                                                                                                                                                           110
                                                                     229 PGSFDVLSPSPDSEGLSSVFSSSLPSPTN----
                                                                                                                                       169
 282 LGSGPP 287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/11/072,512 FILING DATE: 2005-03-07
                                                                                                                                                                        66 VAGAPALRIQKSQSSD--LIERERESVIRREQ-----EVAEERRNALFP----- 107
                                                                                                                                                                                                                                              12
                                                                                                                                                                                                                                                                                 51;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GEEKAEEEGVAEEEGVNKFS-YPPSHRECCPAVEEEDDEEAV-----KKEAHRTSTSALS
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OTSUKI, TETSUJI
WAKAMATSU, AI
SATO, HIROYUKI
                                 VDSAPP 165
                                                                                                      ----EVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAW----TVEDP 159
                                                                                                                                       PAAAPALTPSSGPGSAALTLEEELQEAIRRAQLLPNRGIDDILEDQVEPDDPLPPIPLDF 228
                                                                                                                                                                                                           KPRREDSPAGAPWPRLKPKALAAARRQGSVKPSAASHRPPLPRAADTPGTAPAPTPTP-A 168
                                                                                                                                                                                                                                              KPLSTKQEASKP-PRGCPQA-----NRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVWGWE 65
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YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
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NAGAI, KBIICHI
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YAMAMOTO, JUN-ICHI
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                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                               ; Score 79; DB; Pred. No. 4.3; 16; Mismatches
                                                                                                                                                                                                                                                                                                                    DB 7; Length 312;
                                                                                                                                                                                                                                                                                 79;
                                                                       SPRDPTDSLDWLEALSGGPP 281
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RESULT 12

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US-11-087-099-4237
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                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 4237
LENGTH: 706
TYPE: PRT
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Publication No. US20060041961A1
GENERAL INFORMATION:
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NUMBER OF SEQ ID NOS: 48640
SOFTWARE: PatentIn version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING TITLE OF INVENTION: CANCERS FILE REFERENCE: AM101079 (031896-010000)
CURRENT APPLICATION NUMBER: US/10/770,726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant
FILE REFERENCE: 39-21 (53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Brown,
APPLICANT: Liu, W
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                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Fusarium oxysporum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENGTH: 1271
                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
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                                                                       589
                                                                                                                                            541 -WEALLCIHKALHKLGATYIPDEDYES-----RTAEERAEASGEGSFA-----DSHDNN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   332 CSSNENLTSSEEDFSSGQSSRVSPSP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         272 PPLEYQPYQSIYVGGMMEGEGKGPLLRSQSTSEQEKRLTWPRRSYSPRSFEDCGGGYTPD
641 HPKEPFVALH 650
                                  169 KKEQWYAGIN 178
                                                                                                                                                                                                                   497 RPHSRSQLRMDEANTRPQGMTPINPPKKNK-PVRWQF---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     42;
                                                                                                                                                                                                                                                  12 KPLSTKQ----EASKPPRGC-----PQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPHVW 62
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           70 PALRIQKSQS---SDILERERESVIRREQEVAEERRNALFP-EVFSP--
                                                                      RGSSSSIDPKKRYNLPADPW---
                                                                                                        RSSSQASGITGSYSVSESPFFSPIHLHSNVAW------TVEDPVDSAPPGQR 168
                                                                                                                                                                            GWEVAGAPALRIOKSOSSDILERERESVLRREQEVAEERRNALFPEVFSPTPDENSDONS 122
                                                                                                                                                                                                                                                                                      6.9%; Score 78.5; ilarity 22.6%; Pred. No. 1: Conservative 26; Mismatch
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28.8%;
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Pred. No. 24;
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                                                                       -HINVRWDTSAIKKKAASVPGTPSSP--STPEGOH 640
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RESULT 14

US-11-072-512-3514

GENERAL INFORMATION:

Sequence 3514, Application US/11072512 Publication No. US20060029945A1

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APPLICANT: INTOCUTANT, CONTROL APPLICANT: YOSHIKAWA, TSUTOMU APPLICANT: YOSHIKAWA, TSUTOMU APPLICANT: YOSHIKAWA, TSUTOMU APPLICANT: NASUHO, YASUHIKO TITLE OF INVENTION: Novel full length cDNA FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT ETLING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2001-11-05
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 3514
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US-11-072-512-2709
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APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
                                                                                                           Sequence 2709, Application US/11072512 Publication No. US20060029945A1 GENERAL INFORMATION:
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Best Local &
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TYPE: PRT
ORGANISM: Homo Bapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Match 6.9%; Score 78; DB 7; Length 419;
Local Similarity 20.3%; Pred. No. 7.7;
nes 43; Conservative 25; Mismatches 60; Indels
                                                                                                                                                                                                                                                                                                                   319
                                                                                                                                                                                                                                            358 QPQQQTPQEQTPPPQQQQQQQQQQVTCSVSEDLS 389
                                                                                                                                                                                                                                                                              157 ----EDPVDSAPPGQRKKEQWYAGINPSDGIN 184
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                                                                                                                                                                                                                                                                                                                                                                                              265 THIAIPQEAYNAVHVSGSPTÄLAAVK-----LEDDKEKMVGTTSVVKNSHEEVVQTLAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     59 PHVW-----GMEVAGAP-ALRLQKSQSSDLLERERES-----VLRREQEVAEERRN 103
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SATO, HIROYUKI
ISHII, SHIZUKO
YAWAMOTO, JUN-ICHI
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NAGAI, KEIICHI
IRIE, RYOTARO
TAMECHIKA, ICHIRO
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HIO, YURI
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CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 205-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2709
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                                                                                                                                                                                                                                                   ; LENGTH: 571
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2709
                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 29; Conserv
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APPLICANT:
APPLICANT:
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TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
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                                                                                                                  348 RAGTSVIKER----IPE--SPSPAPSLEENHRPGSQTSSHTSS-SVSSSPSQMDHHLERM 400
                                                 401 EEVPVQIPIMKSPLDKIQLTPGQ 423
                                                                                  152 VAWTVEDPVDSAP-----PGQ 167
                                                                                                                                                 92 RREQEVAEERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSN 151
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NAGAI, KEIICHI
IRIE, RYOTARO
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OTSUKA, MOTOYUKI
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SEKI, NAOHIKO
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ISONO, YUUKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAGAHARI, KENJI
                                                                                                                                                                                      Conservative
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3, 2006, 14:19:06
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                                                                                                                                                                                  ; Score 78; DB 7; Pred. No. 11; 8; Mismatches
                                                                                                                                                                                    32;
                                                                                                                                                                                                                  Length 571;
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Gaps

Search completed: March Job time: 11.2381 secs

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Maximum DB
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No.
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  Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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geneseqp2003as:*
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1216.113 Million cell updates/sec
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ADA26380
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Aae07322
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CS198 pro
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61 VMGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTFDENSDQ 120

VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ

MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH

8

Query Match Best Local Similarity Matches 215; Consery

Conservative

0

Mismatches

100.0%; Score 215; DB 2; 100.0%; Pred. No. 3.3e-208;

Length 215; Indels

0

0

60 60

Sequence 215 AA;

used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative colitis, and pancreatitis

This sequence represents the C-terminal of the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be

for

New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.

Claim 26;

Page 103; 127pp; English.

| (ABBO) ABBOTT LAB.  Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Granados EN, Hayden M, Hodges SC, Klass MR, Kratochvi Pohorts-Rann I. Russell JC. Stroupe SD: | XX | RESULT 1 AAW79681 AAW79681; XX AAW79681; XX 11-JAN-1999 (first entry) XX XX XX Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; KW human; predisposition; treatment; Barret's oesophagus; gastric ulcer; KW gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis; KW pancreatitis. | 25 31 14.4 31 6 ADA26381 26 31 14.4 31 8 ADN17174 Adn17174 27 30 14.0 33 2 AAW79680 Aaw79687 28 30 14.0 33 4 AAE07323 Aae07323 29 30 14.0 33 6 ADA26383 Ada26383 30 30 14.0 33 8 ADN17176 Adn1717176 |
|--|----|---|--|
| ይ  |    | ease; detection; CS198;<br>sophagus; gastric ulcer;<br>; ulcerative colitis;  | Ada26381 Synthetic<br>Adn17174 CS198 pep<br>Aaw79680 Synthetic<br>Aae07323 Human CS<br>Ada26383 Synthetic<br>Adn17176 CS198 pep  |

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The invention relates to a method of detecting the presence of a target CS 198 polynucleotide comprising contacting the test sample with at least one CS 198-specific polynucleotide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Croin's disease, ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic immunoassays, as components or as target sites for various therapies. Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (COLP/)
(COHE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis;. Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                Claim 17; Page 52-53; 68pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
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Granados EN,
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(HODG/)
(KLAS/)
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(GORD/)
(GRAN/)
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(RUSS/)
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PRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M.
HODGES S C.
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Hayden M,
L, Russell
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Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                English.
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Kratochvil JD;
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at least
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Best Local Sim
Matches 215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 polynucleotide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is C-terminal portion of human CS 198 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                               (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(GORD/)
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                          Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-OCT-2002; 2002US-00278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2003082619-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADA26384;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADA26384 standard; protein; 215
  Roberts-Rapp
                                                                                                                                                                                                                                      (HAYD/)
                                                                                                                                           (ROBE/)
                                                                                                                                                                   (KRAT/)
                                                                                                                                                                                        (KLAS/)
                                                                                                                                                                                                                (HODG/)
                                                                                                                                                                                                                                                              (GRAN/)
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                                                                                                                                                                                   GORDON J.
GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
                                                                                           KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                       COHEN
                                                                                                                                                                                                                                                                                                                                                                          BILLINGEL
                                                                                                                                                                                                                                                                                                       COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NSRSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NSRSSSOASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGORKKEOWYAGINPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       peptide based
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
ilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
  ŗ
  , Cohen M,
Hayden MA,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                       97US-00828855.
98US-00050516.
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Colpitts TL,
Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CS198
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Pred.
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No. 3.3e-208;
    Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #5
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                            PN, Gordon
Kratochvil
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                            g,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CS 198
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ARRESULT 4

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention describes a method of detecting the presence of a target CC CS198 polynucleotide in a test sample. The method comprises contacting CC the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide for its complement, and detecting the presence of the target CS198 polynucleotide has at least CC in the test sample, where the CS198-specific polynucleotide has at least CC sequences of 34-2894 bp (S1-27) given in the specification, or their CC diagnosting, staging, monitoring, prognosticin and methods are useful in CC diagnosting, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and CC conditions of the gastrointestinal tract, e.g. cancer and in gene C therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 215 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                            Gastrointestinal tract; GI tract; CS198; cancer; gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADN17177 standard;
                                                                                          31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                        US2004043406-A1.
                                                                                                                                                                                                                                                                                                                                                                Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CS198 protein
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                                                                                                                                                                                     22-AUG-2003; 2003US-00646873
      (BILL/) BILLINGEL P
(COHE/) COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
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98US-00050516
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Pred. No. 3.3e-208;
; Mismatches 0;
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AC AAWT
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DT 11-J
DT 11-J
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DE Huma
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Gast
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 protein used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diagnosing diseases such as cancer of the detecting aberrant expression or activity associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Billingel
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(FRIE/)
(GORD/)
(GRAN/)
                                     Gastrointestinal tract; GI tract; cancer; disease; detection; (human; predisposition; treatment; Barret's oesophagus; gastric gastritis; leiomyoma; polyps; Crohn's disease; ulcerative coli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 17; SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HODG/)
                                                                                                                     11-JAN-1999
                                                                                                                                                                        AAW79676 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HAYD/
                          pancreatitis.
                                                                                         Human CS198 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       invention.
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HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP 1
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COLPITTS
FRIEDMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GORDON
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                                                                                                                                                                                                                                                                                                                                                                                                      MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRPRAPDEPQQAQVPH
                                                                                                                                                                                                                                                         DGINSEVLEA IRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                                      NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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                                                                                                                                                                                                                                                                                             NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                         DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               , Cohen M,
Hayden MA,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₹
                                                                                                                     (first
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                                                                                                                                                                        protein;
                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
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Hodges SC,
JC, Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 215; DB 8;
Pred. No. 3.3e-208;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Friedman
Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gastrointestinal tract, by of the CS198 polypeptide,
                                                                                                                                                                                                                                                                    215
                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
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Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      215;
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0;

Homo sapiens

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RESULT 6
AAE07319
ID AAE0
AX AAE0
XX AAE0
XX AAE0
XX Huma
XX CS I
KW Gast
KW Gast
KW Gast
KW Gast
KW Gast
XX Homc
XX H
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This sequence represents the human CS198 protein which is used in a method to detect the presence of a target CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, lelomyoma, polyps, Crohn's disease, ulcerative colitis, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New gastrointestinal polymucleotides, CS198, and their detection - for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastriting
                                                       Homo sapiens
                                                                                                       CS 198; gastrointestinal tract disease; GI tract; cancer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                   Human CS 198
                                                                                                                                                                                                                                                                        06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                  AAE07319 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pancreatitis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Billing-Medel PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1998-542714/46
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD
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ilarity 100.0%;
Conservative (
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Hayden M, Hodges SC, Klass
L, Russell JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97US-00828855
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     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                  protein; 679
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Pred. No. 9.1e-208;
; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        215
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                                                                                                                                                                    gastric ulcer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gastritis
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                                                                                                                                                                        The invention relates to a method of detecting the presence of a target CC S198 polynucleotide comprising contacting the test sample with at least CC one CS 198 specific polynucleotide. The method is useful for detecting CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CC The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, cc treating or determining predisposition to diseases and conditions of the CG tract such as cancer, gastric ulcer, gastrits, Crohn's disease, CC ulcerative colitis, pancreatitis and Barrer's oceophagus. The CS 198 CC polypeptides are useful as standards or reagents in diagnostic cc immunoassays, as components or as target sites for various therapies. CC Antibodies directed against at least one epitope contained within these CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 colymucleotide is also useful in gene therapy and drug screening. The CC method of the invention provides an alternative, non-surgical diagnostic central sequence is human CS 198 polypeptide
                                                                                                              Matches
                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, co contacting test sample with at least one CS 198-specific polynucle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (KLAS/)
(KRAT/)
(ROBE/)
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(FRIE/)
(GORD/)
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                                                                                                                                                                      Sequence 679
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Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 17; Page 49-51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-MAR-1997;
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DB; AAD13637.
                                                                                                              215;
                                                        465
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HAYDEN M.
HODGES S C.
KLASS M R.
KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COLPITTS T L. FRIEDMAN P N. GORDON J. GRANADOS E N.
                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BILLINGEL P A.
                                                      MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COHEN
                      VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                Conservative
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Hayden
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yden M,
Russell
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                                                                                                                            100.0%;
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Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                              0;
                                                                                                              Score 215; DB 4;
Pred. No. 9.1e-208;
Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Friedman
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Kratochvil JD;
                                                                                                                                           Length 679;
                                                                                                                 Indels
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                                                                                                                Gaps
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Query Match
Best Local Similarity
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27-APR-2000;
20-JUN-2000;
19-JUL-2000;
01-SEP-2000;
                                                                                                                 The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM7823-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides are various cytokine-like activities, e.g. stem cell growth factor activity, haematopolesis regulating activity, tissue growth factor activity, immunomodulatory activity and activiny inhibin activity and may be useful in the diagnosis and/or activity individual activity and may be useful in the diagnosis and/or activity individual activity and may be useful in the diagnosis and/or activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; cytokine; cell proliferation; cell differentiation; gene th vaccine; peptide therapy; stem cell growth factor; haematopolesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human protein SEQ ID NO 1252.
                                                                                                                                                                                                                                                                                     Nucleic acids encoding polypeptides with cytokine-like in diagnosis and gene therapy.
                                                                                                                                                                                                                                                                                                                               WPI; 2001-476283/51.
N-PSDB; AAK51723.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200157190-A2
                                                                            treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the
                                                                                                                                                                                                                                                             Claim
                                                                                                                                                                                                                                                                                                                                                                         Xue AJ,
                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                             (HYSE-) HYSEQ INC.
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20-OCT-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    645
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                                                                                                                                                                                                                                                            20; Page 3512-3514; 6221pp; English
                                                                                                                                                                                                                                                                                                                                                                                      Zhao QA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bystem
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                                                                 listing
                                         679 AA;
                                                                                                                                                                                                                                                                                                                                                                                                  Liu C,
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2000US-00598075.
2000US-00620325.
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2000US-00654336.
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2000US-00693325.
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                                                                    were
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100.0%;
                                                                 missing at the time
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Wang
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 Score
Pred.
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J, Zhang
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Goodrich R;
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 215; DB 4; Length No. 9.1e-208;
                                                                    of publication
                                                                                                                                                                                                                                                                                                                                                                                                    Zhou P,
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Matches
                                                                                                                                                                                                                                                                                                                                                                            CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                  Predicted
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                                                                                                                   Billingel PA
Granados EN,
                                                                                                                                                                                                                              (BILL/)
(COHE/)
(COLP/)
(FRIE/)
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                                                                                                                                                                                                                                                                                                                                                           Synthetic;
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                                                                                        WPI; 2003-596961/56
                                                                                                         Roberts-Rapp
                                                                                                                                                                                                    (GRAN/
(HAYD/
                                                                                                                                                                                                                                                                                     31-MAR-1997;
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COLPITTS T L.
FRIEDMAN P N.
GORDON J.
GORDON J.
HAYDEN M A.
HAYDEN M A.
HODGES S C.
                                                                                                                                             KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                          BILLINGEL
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                                                                                                         , Cohen M,
Hayden MA,
L, Russell
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98US-00050516.
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                                                                                                                                                                                                                                                                                                                                                                                                                  sequence
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Hodges SC,
JC, Stroupe
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                                                                                                          Friedman |
Klass MR,
SD;
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Kratochvil
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Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test

The invention describes a method of detecting the CS198 polynucleotide in a test sample. The method

presence of a target comprises contacting

Claim 17;

Page

49-50;

67pp;

English

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Best Local
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  Billingel
                                                                        (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(GORD/)
(GRAN/)
(HAYD/)
(HAYD/)
                                                                                                                                                                                              31-MAR-1997;
30-MAR-1998;
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                                                                                                                                                                                                                                                                                  US2004043406-A1
                                                                                                                                                                                                                                                                                                          Unidentified
                                                                                                                                                                                                                                                                                                                                 Gastrointestinal
                                                                                                                                                                                                                                                                                                                                                        CS198 protein
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                                                            (KRAT/)
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                                   ) BILLINGEL P A.
COHENTS T L.
) COLPITS T L.
) FRIEDMAN P N.
) GORDON J.
GORDON J.
GORDON J.
HAYDEN M A.
) HAYDEN M A.
) HODGES S C.
KLASS M R.
KRATOCHYLL J D.
ROBERTS-RAPP L.
RUSSELL J C.
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  PA,
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98US-00050516.
  Cohen
                         S D.
                                                                                                                                                                                                                                                                                                                                 tract; GI tract; CS198; cancer; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                entry)
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  Colpitts
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Pred. No. 9.1e-208;
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TL,
  Friedman
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  Gordon
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RESULT 10
ADX97562
ID ADX977
XX ADX97
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Best Local Similarity
Matches 215; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, associated treatment methods.
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Roberts-Rapp
                                       (HINZ/)
(ROSE/)
(PILA/)
(DAHL/)
(SPEC/)
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NK; D87440.
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                                                                                                                                                   HINZMANN B.
ROSENTHAL A.
                                                                                                               PILARSKY C.
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L, Russell
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JC, Stroupe
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Pred. No. 9.1
0; Mismatches
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DAHL E. SPECHT T. LICHTNER R

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RESULT 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 treatment of pancreatic cancer, using a substance that inhibits or binds to the protein or its DNA, including: an antisense oligonucleotide, short interfering RNA or ribozyme directed against the pancreatic protein, an organic molecule, particularly having a molecular weight below 5000, especially 300, that binds to the pancreatic DNA, an aptamer or (monoclonal) antibody, preferably human or humanized, that binds to the pancreatic DNA, or an anti-idiotypic antibody raised against the monoclonal antibody, any of which may be derivatized with a reporter group, cytotoxic compound, immunostimulant and/or radioisotope. The novel human pancreatic proteins and their encoding DNA have cytostatic and/or expression of genes and proteins associated with pancreatic cancer. This sequence represents one of the novel human pancreatic cancer. This sequence represents one of the novel human pancreatic proteins of the invention. Note: This sequence is not shown in the specification, it has been electronically downloaded from a DVD-rom provided with this specification by the European Patent Office.
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Best Local Similarity
Matches 215; Conserv
 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid differentially expressed use as diagnostic agents and in screening
                                              Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pancreas and its encoded protein. The invention further comprises: proteins and peptides, preferably isolated, that contain a sequence encoded by the novel nucleic acid; and methods for diagnosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a novel human nucleic acid sequence
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Roepcke S,
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Mismatches 0;
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Li X;
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RESULT 12
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27-APR-2000; 2000US-00560875.
20-JUN-2000; 2000US-00598075.
19-UL-2000; 2000US-00620325.
01-SEP-2000; 2000US-00634936.
15-SEP-2000; 2000US-0069325:
20-CCT-2000; 2000US-0069325:
30-NOV-2000; 2000US-00728422.
                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activin/inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the sequence listing were missing at the time of publication
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Ma Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
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Y, Zhao QA, Y
AJ, Yang Y,
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Y, Wejhrman T
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100.0%; Pred. No.
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g J, Zhang J,
Goodrich R;
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Human; NC1; NC2; NC3; PHHI; pancreas beta-cell; insulin; antidiabetic;

Human NC2

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RESULT 13
AAG73987
ID AAG73
XX AAG73
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         differentiation and proliferation of such cells and their precursors as analogous cells in treatment of e.g. pHHI and diseases due to differentiation/proliferation abnormality, diseases of the nervous system and pancreas. The coding sequences are also useful as spontaneous proliferation models of pancreas beta-cells. The novel genes NC1, NC2 and NC3 were isolated from the pancreas of PHHI patients, which were used in testing for the detection of proliferative insulin-producing cells or
                     WO200122920-A2
                                                  Homo sapiens.
                                                                                  colorectal carcinoma
                                                                                                    Human; colon cancer; colon
                                                                                                                               Human colon cancer antigen protein SEQ ID NO:4751
                                                                                                                                                               03-SEP-2001
                                                                                                                                                                                                                             AAG73987 standard; protein; 172 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pancreas beta-cells by Northern analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to human NC1, NC2 and NC3 proteins and coding sequences (ADG14340-ADG14345). The coding sequences are useful detecting and screening proliferative insulin-producing cells as well
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; SEQ ID NO 2; 34pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI) patient-expressed genes for detecting and screening e.g. proliferative insulin-producing cells in treatment of PHHI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Niwa H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-MAR-2002; 2002JP-00071592.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-MAR-2003; 2003WO-JP002620.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO2003078631-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   neuroprotective
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (KANF ) KANEKA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2003-767524/72.
DB; ADG14344.
                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                        525
                                                                                                                                                                                                                                                                                                                                                                                                                                   465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  170;
                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yamashita K;
                                                                                                                                                                                                                                                                                                                                                                                          VWGWEVAGAPALRLOKSOSSDLLERERESVLRREQEVAEERRNALFPEVFSPTFDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                       MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRFLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                      NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKK 170
                                                                                                                                                                                                                                                                                                                                                                        VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                     MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             679 AA,
                                                                                                                                                                                                                                                                                                          NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79.1%;
llarity 100.0%;
Conservative (
                                                                                                                                                               (first entry)
                                                                                                    cancer antigen; diagnosis; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 170; DB 7; Log; Pred. No. 2.4e-162; 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 679;
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                                                                                                                                                                                                                                                                                                          634
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                                                                                                                                                                                                                                                                                                                                                                                                                                     524
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC cancer-associated nucleic acid molecules (N) and proteins (P), where the CC proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy cand vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased concerts on by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal can be used in the prevention and AAH37204 and AAB77789 represent can be used in the exemplification of the present invention. N.B. CC anges 666 to 682 and page 7053 of the sequence listing were missing at the of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-235357/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-SEP-1999;
03-NOV-1999;
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                                 03-APR-2002; 2002US-00029386
                                                                03-APR-2002; 2002US-00029386.
                                                                                                                                US2003194704-A1
                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                           Human; gene expression; single exon alternative splicing event; genomic
                                                                                                                                                                                                                                          Human genome derived single exon protein #6276.
                                                                                                                                                                                                                                                                          29-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                         ABO60042 standard; protein; 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 172 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  time of publication, moto 1052, 7921 and 7922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 11; Page 6550-6551; 9803pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-SEP-2000; 2000WO-US026524
                                                                                                16-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                         56
                                                                                                                                                                                                                                                                                                                                                                                                                                                       99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60;
                                                                                                                                                                                                                                                                                                                                                                                                                     EERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVED 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0157137P.
99US-0163280P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27.9%; 5u-
100.0%; Pre
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 60; DB; Pred. No. 7.1
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rosen CA;
                                                                                                                                                                                               probe; microarray;
alteration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 4; Le . 7.1e-52; ches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 172;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         proteins (P), where antiqens. The colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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(PENN/) PENN S G

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RESULT 15
AAW79677
ID AAW79
XX AAW79
AC AAW79
XX I1-JJ
DT 11-JJ
XX Syntl
XX Gast1
KW Gast1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        contiguous amino acids of any of the above-mentioned amino acid sequences (optionally with conservative amino acid substitutions), an cisolated antibody that binds specifically to a peptide cited above, constitution of selling and/or licensing single exon probes or microarrays to a customer desiring to measure gene expression, a method of providing contains a database having a plurality of records (each record including data by subscription, and a computer-readable cited above. The probe, methods and apparatus are useful in gene capression analysis. The probes may be used as tools for surveying tissues to detect the presence of expression of a single exon probe contains their specific exon, or in constructing genome-derived single exon microarrays. In addition, the probes are used in identifying and characterising alternative splicing events, in detecting and characterising smaller genomic alterations, in priming the synthesis of nucleic acids, or in expressing the ORP-encoded peptide. The present sequence is a human capress of patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO at sequence intended to the printed specification, but was sequence intended to the printed specification.
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Best Local S
Matches 43
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New human genome-derived single exon nucleic acid probes useful for human gene expression analysis, for identifying or characterizing alternative splicing events, for assessing genomic alterations or as tools for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 45; SEQ ID NO 33676; 80pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI, 2004-119264/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Penn SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      measuring human gene expression, a vector comprising the single exon probe cited above, an ORF-encoded peptide comprising at least 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           expression,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (RANK/) RANK D R. (HANZ/) HANZEL D K.
  Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                              Synthetic CS198 derived peptide #1.
                                                                                                       11-JAN-1999
                                                                                                                                                                                      AAW79677 standard; protein; 36
                                                                                                                                                                                                                                                                                                                 131 ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW 173
                                                                                                                                                                                                                                                                                           H
                                                                                                                                                                                                                                                                                                                                                                        l Similarity
43; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                              43
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                                                                                                                                                                                                                                                                                           ITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQW 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           comprising any of the 27,400 fully defined nucleotide
                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ξ,
                                                                                                       (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hanzel
                                                                                                                                                                                                                                                                                                                                                                                              20.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid probe for measuring human gene
                                                                                                                                                                                                                                                                                                                                                                                              Score 43;
                                                                                                                                                                                                                                                                                                                                                                             0,
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                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                  DB 8;
                                                                                                                                                                                                                                                                                                                                                                                                                      8; Length 43
                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                             0;
        ulcer;
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RESULT 16
AAE07320
ID AAE07
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Query Match
Best Local S
Matches 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gastritis; leiomyoma; polyps; Crohn's disease;
pancreatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New gastrointestinal polynucleotides, CS198, and their detection - for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastriti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Billing-Medel Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-OCT-1998
                                                                                                                                                CS 198; gastrointestinal tract disease; GI tract; cancer; gas
gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 26; Page 102; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 36 AA;
                                                  30-MAR-1998;
                                                                                                                                                                                                      Human CS 198
                                                                                                                                                                                                                                06-NOV-2001
                                                                                                                                                                                                                                                        AAE07320
                                                                                                                                                                                                                                                                               AAE07320 standard; peptide; 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          colitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ABBO ) ABBOTT LAB
                                                                           02-AUG-2001
                                                                                                   US2001010904-A1
                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                               1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                               MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                16.7%; Solitarity 100.0%; I Conservative 0;
                                                                                                                                                                                                     peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PA, Cohen M, Colpitts TL,
Hayden M, Hodges SC, Klass
L, Russell JC, Stroupe SD;
                                                                                                                                                                                                                              (first entry)
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                         97US-00828855
                                                  98US-00050516
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%; Pred. No. 3e-
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                  36
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                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                           Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Iman PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of
or gastritis.
                                                                                                                                                                                gastric ulcer;
                                                                                                                                                                                                                                                                                                                                                                                                    0
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0

(BILL/) BILLINGEL P A.

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RESULT 17
ADA26380
ID ADA26
XX
AC ADA26
XX
DT 20-NC
DT 20-NC
XX
EW CS191
KW CS191
KW Canco
KW Gast:
XX
OS Syntl
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                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a method of detecting the presence of a target CC Sign specific polynucleotide. The method is useful for detecting con Sign specific polynucleotide. The method is useful for detecting CC one CS 198 specific polynucleotides. The method is useful for detecting CC detecting, diagnosing, staging, prognaticating, particularly cancer. CC The CS 198 polynucleotides, polypeptides and antibodies are useful for CC treating or determining predisposition to disease and conditions of the CS 198 polynucleotides, polypeptides and antibodies are useful as an darret goesphagus. The CS 198 cc ulcerative colitis, pancreatitis and Barret's goesphagus. The CS 198 cc ulcerative colitis, pancreatitis or reagents in diagnostic CC immunoassays, as components or as target sites for various therapies. CC polypeptides are useful as delivery agents for therapeutic agents, in C diagnostic tests and for screening for conditions or disease associated CC with CS 198 particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 colynucleotide is also useful in gene therapy and drug screening. The CC method of the invention provides an alternative, non-surgical diagnostic contenues accurate is a peptide derived from human CS 198 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                Matches
                              CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
   Synthetic;
                                                                                                 Synthetic peptide based on CS198 protein #1.
                                                                                                                                    20-NOV-2003
                                                                                                                                                                    ADA26380;
                                                                                                                                                                                                     ADA26380 standard; protein; 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 17; Page 51; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-496163/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   consensus sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HAYD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (COLP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (KLAS/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RUSS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KRAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GORD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COHE/)
                                                                                                                                                                                                                                                                                                                                                 ch 16.7%; So limitarity 100.0%; I similarity 100.0%; I 36; Conservative 0;
                                                                                                                                                                                                                                                                                     μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GRANADOS E N.
HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COLPITTS T L. FRIEDMAN P N. GORDON J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COHEN
                                                                                                                                                                                                                                                                                                          MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                    36
                                                                                                                                                                                                                                                                                     MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                    Ą,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cohen M,
Hayden M,
                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                   Score 36; DB; Pred. No. 3e-
0; Mismatches
                                                                                                                                                                                                     ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Friedman
                                                                                                                                                                                                                                                                                                                                                                  DB 4;
3e-28;
                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                  Length 36;
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Kratochvil JD;
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RESULT 18
ADN17173
ID ADN17
XX
AC ADN17
AC ADN17
XX
DT 17-JU
XX
DE CS198
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                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                              diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tree, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                                                                                                                     The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in dispersions are assets.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                        Sequence 36 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COLE/)
                                                                                       ADN17173 standard; peptide; 36 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 17; Page 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-596961/56.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-OCT-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RUSS/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ROBE/
                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                       36;
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                                                                                                                                                                              1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
KRATOCHVIL J I
ROBERTS-RAPP I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COHEN M.
COLPITTS T L.
FRIEDMAN P N.
GORDON J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BILLINGEL P A.
                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , Cohen M,
Hayden MA,
L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2002US-00278547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9803-00050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         67pp; English.
                                                                                                                                                                                                  16.7%; 5cc
100.0%; Pr
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                                                                                                                                                      Colpitts TL,
Hodges SC,
LJC, Stroupe
                                                                                                                                                                                                                   Score 36;
Pred. No.
                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Klass
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Friedman
Klass MR,
                                                                                                                                                                                                                   DB 6;
3e-28;
                                                                                                                                                        36
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                                                                                                                                                                                                                                Length 36;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N, Gordon
Kratochvil
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                                                                                                                                                                                                        Gaps
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17-JUN-2004 (first entry)

CS198 peptide

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RESULT 19
AAW79679
ID AAW79
XX AAW79
AC AAW79
XX 11-JA
XX 27
XX 27
XX 27
XX 37
XX 47
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Best Local S
Matches 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynuclectide in the test sample. The methods and compositions of the present invention are useful for the disgnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. These are also useful in gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Diagnosing diseases such as cancer of the detecting aberrant expression or activity associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-AUG-2003; 2003US-00646873.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2004043406-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gastrointestinal tract; GI tract; CS198; cancer; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seguence 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (COHE/)
Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI, 2004-313754/29.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GORD/)
                                                                                             Synthetic CS198
                                                                                                                                       11-JAN-1999
                                                                                                                                                                                    AAW79679
                                                                                                                                                                                                                                AAW79679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (STRO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HODG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HAYD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FRIE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KRAT/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KEAS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COLPITTS T L.
FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                        1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                l Similarity
36; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KLASS M R.
KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BILLINGEL P A. COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence
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GRANADOS E N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PA,
                                                                                                                                                                                                                                standard; protein; 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 43; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $
                                                                                                                                                                                                                                                                                                                                                                                                                                16.7%; So ilarity 100.0%; I Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              , Cohen M,
Hayden MA,
L, Russell
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                                                                                                                                       (first entry)
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98US-00050516.
                                                                                           derived peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŗ
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Hodges SC, 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 36;
Pred. No.
                                                                                                                                                                                                                                  ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                            No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 8;
3e-28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gastrointestinal tract, by of the CS198 polypeptide, and
                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PN, Gordon
Kratochvil
                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g;
                                                                                                                                                                                                                                                                                                                                                                                                                                    0,
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RESULT 20
AAE07322
ID AAE07
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 Matches
                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           www/yb/17-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker fo gastrointestinal (GI) tract disorders. The methods and products can be used in detecting, diagnosing, staging, monitoring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New gastrointestinal polymucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Billing-Medel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pancreatitis.
                                                                                                                                                        CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis; Barret's oesophagus; gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 35 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 26; Page 103; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-542714/46.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Granados
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9844159-A1
                                                                                                                                  Homo sapiens
                                                                                                                                                                                                        Human
                                                                                                                                                                                                                                06-NOV-2001
                                                                                                                                                                                                                                                        AAE07322;
                                                                                                                                                                                                                                                                               AAE07322 standard; peptide; 35 AA.
                                    31-MAR-1997;
                                                            30-MAR-1998;
                                                                                    02-AUG-2001.
                                                                                                            US2001010904-A1
(BILL/) BILLINGEL P A. (COHE/) COHEN M.
                                                                                                                                                                                                                                                                                                                                                           104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                        CS 198
                                                                                                                                                                                                                                                                                                                                                                                            35;
                                                                                                                                                                                                                                                                                                                                          1 ALPPEVFSPTPDENSDQNSRSSSQASGITGSYSVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u></u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PA,
                                                                                                                                                                                                        peptide
                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hayden M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00828855
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                                     97US-00828855
                                                             98US-00050516.
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                                                                                                                                                                                                                                                                                                                                                                                                       16.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       M, Colpitts TL,
Hodges SC, Klass
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                       Score 35; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                         DB 2;
J. 3e-27;
O;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ₹,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Friedman PN,
                                                                                                                                                                                                                                                                                                                                                                    138
                                                                                                                                                                                                                                                                                                                                                                                                                    Length 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gordon
                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                    ulcer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for
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RESULT 21
ADA26382
ID ADA26
XX
AC ADA26
XX
DT 20-NC
XX
DT 20-NC
XX
Syntl
XW
CS191
KW CS191
KW Canco
KW Gast:
XX
OS Syntl
XX
XX
Syntl
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                                                                                                                                                                                                                                                                                                                                           S
                                                                                                                                                                                                                                                                                                                                                                                                                                                 SXCCCCCCCCCCCCCCCCCCCXSXTTTTXXTXIIII
                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic immunoassays, as components or as target sites for various therapies. Antibodies directed against at least one epitope contained within these polypeptides are useful as delivery agents for therapeutic agents, in diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 polypucleotide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is a peptide derived from human CS 198 polypeptide
                                                  CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diseases of the gastrointestinal (GI) tract organs, particularly cancer. The CS 198 polynucleotides, polypeptides and antibodies are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a method of detecting the presence of a target CS 198 polynuclectide comprising contacting the test sample with at less one CS 198-specific polynuclectide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cances
                      Synthetic;
                                                                                                                       Synthetic peptide based on
                                                                                                                                                          20-NOV-2003
                                                                                                                                                                                           ADA26382;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 17; Page 52; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-496163/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Billingel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
                                                                                                                                                                                                                           ADA26382 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (FRIE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GRAN/)
                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                                                             104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                                                                                                                                                                                               ш
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COLPITTS T L. FRIEDMAN P N. GORDON J. GRANADOS E N.
                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KRATOCHVIL J
ROBERTS-RAPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KLASS M R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                               ₽,
                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , Cohen M,
Hayden M,
L, Russell
                                                                                                                                                        (first entry)
                                                                                                                                                                                                                           protein;
                                                                                                                                                                                                                                                                                                                                                                                                16.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Colpitts TL, Friedma.
Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                                         CS198 protein
                                                                                                                                                                                                                             35
                                                                                                                                                                                                                                                                                                                                                                                                Score 35; pred. No.
                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Friedman
                                                                                                                                                                                                                                                                                                                                                                                                DB 4;
3e-27;
                                                                                                                          #3
                                                                                                                                                                                                                                                                                                               35
                                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                                                                                              Length 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PN, Gordon J;
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         target
at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CS 198
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RESULT 22
ADN17175
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                                                                                                                                                                                                                                                       SXSXSXSXS
                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                           The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one Septific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198-specific polynucleotide has at least 50% identity to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                      Sequence 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Detecting the presence of a target CS198 polynucleotide in a test sample comprises contacting the sample with a CS198 specific polynucleotide and detecting the presence of the target CS198 polynucleotide in the test
                     CS198 peptide #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 17; Page 51; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-596961/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Billingel PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GRAN/)
(HAYD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (FRIE/)
(GORD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (COLP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2003082619-A1
                                                                                            ADN17175 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (KRAT/)
                                                                                                                                                                               104
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GORDON J.
GRANADOS E N.
HAYDEN M A.
TONGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FRIEDMAN P N.
GORDON J.
                                                                                                                                                                                                        35;
                                                                                                                                                        \vdash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KRATOCHVIL J
ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HODGES S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BILLINGEL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COHEN
                                                                                                                                                                      ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                                         ALFPEVESPTPDENSDONSRSSSOASGITGSYSVS
                                                                                                                                                                                                                                                       AA;
                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3
                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cohen M,
Hayden MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-00050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ۲۶
                                                                                                                                                                                                                  16.3%; Score 35; 100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Colpitts TL,
Hodges SC,
L JC, Stroupe
                                                                                             35
                                                                                                                                                                                                        0,
                                                                                             ₿
                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Klass MR,
SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Friedman PN,
                                                                                                                                                                                                                   DB 6;
3e-27;
                                                                                                                                                                                                        0;
                                                                                                                                                                                                                              Length 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kratochvil JD;
                                                                                                                                                                                                         0
                                                                                                                                                                                                       Gaps
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Gastrointestinal tract; GI tract; CS198; cancer; gene therapy.

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RESULT 23
AAW79678
ID AAW75
XX AAW75
XX AAW75
XX 11-JJ
DT 11-JJ
XX Syntl
XX Gastl
KW Gastl
KW Gastl
KW Gastl
KW Gastl
KW Gastl
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                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 35
                                                                                                                                                                                                                                                                                                                      The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with abstrant expression or activity of the CS198 polypoptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, and associated treatment methods.
        Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's oesophagus; gastric ulcer; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                      Sequence 35 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US2004043406-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-313754/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (HAYD/)
(HODG/)
(KLAS/)
                                                          Synthetic CS198 derived peptide #2.
                                                                                   11-JAN-1999
                                                                                                                                 AAW79678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                               invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KRAT/
                                                                                                                                                                                                                   104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ) GORDON J.
) GRANADOS E N.
) HAYDEN M A.
) HODGES S C.
) KLASS M R.
                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RUSSELL J
STROUPE S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KRATOCHVIL J
ROBERTS-RAPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COLPITTS T L. FRIEDMAN P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COHEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BILLINGEL P A.
                                                                                                                                                                                                        ALFPEVFSFTFDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                standard;
                                                                                                                                                                                            ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 45;
                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003US-00646873.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hayden MA,
                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-00050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ρņ
                                                                                                                               protein;
                                                                                                                                                                                                                                                    16.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                    67pp;
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Hodges SC, Kla
JC, Stroupe SD;
                                                                                                                                 3
                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                     Score 35;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                    English.
                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Klass MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Friedman
                                                                                                                                                                                                                                                     DB 8;
3e-27;
                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                Length 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N, Gordon
Kratochvil
                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g;
                                                                                                                                                                                                                                           ۰,
                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                             RESULT 24
                                                                                                                                                                                                                                                                                                                                                                                                                     Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW79677-W79680 are synthetic CS198 derived peptide fragments which are used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker for gastrointestinal (GI) tract disorders. The methods and products can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New gastrointestinal polynucleotides, CS198, and their detection - us for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                       CS 198; gastrointestinal tract disease; GI tract; cancer; gastric ulcer; gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gastric ulcer, gastritis, colitis, and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-542714/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Billing-Medel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9844159-A1
                                                                                                                                                                                                                            Human CS 198 peptide
                                                                                                                                                                                                                                                                                                     AAE07321 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 31 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Granados EN,
                                                                                               02-AUG-2001.
                                                                                                                                                                          Barret's oesophagus;
                                                                                                                                                                                                                                                     06-NOV-2001
                                                                                                                                                                                                                                                                            AAE07321;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ABBO ) ABBOTT LAB
                                                31-MAR-1997;
                                                                                                                         US2001010904-A1
                                                                                                                                                 Homo sapiens. .
(COLP/)
                        (/TTIB)
                                                                        30-MAR-1998;
             (COHB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26; Page 102; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                     73 RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                                                     31;
                       BILLINGEL P A.
COLPITTS T L.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
             COHEN M
                                                                                                                                                                                                                                                                                                                                                                    RLOKSOSSDLLERERESVLRREQEVAEERRN
                                                                                                                                                                                                                                                                                                                                                                                                                   ilarity 100.0%;
Conservative
                                                                                                                                                                                                                                                     (first entry)
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Hayden M, Ho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US-00828855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98WO-US006251
                                                97US-00828855
                                                                          98US-00050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Russell JC,
                                                                                                                                                                                                                             #2.
                                                                                                                                                                          gene therapy; drug screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         M, Colpitts TL, Fri
Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                       31
                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                        ₿
                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 2; 1
2.9e-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and their detection - used
                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       aman PN, Gordon
Kratochvil JD;
                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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ADA26381
ID ADA2
XX ADA:
AC ADA:
XX ZO-1
DT 20-1
XX Syn
XX CS1
KW CS1
KW Gas
XX GS
SYn
XX US2
                                                                                                                                                                                                                                                                                                                                                 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC diseases of the gastrointestinal (GI) tract organs, particularly cancer. CC The CS 198 polynucleotides, polypeptides and antibodies are useful for CC detecting, diagnosing, staging, monitoring, prognosticating, preventing, CC treating or determining predisposition to diseases and conditions of the CC direct such as cancer, gastric ulcer, gastritis, Crohn's disease, CC ulcerative colitis, pancreatitis and Barret's oesophagus. The CS 198 CC polypeptides are useful as standards or reagents in diagnostic CC immunoassays, as components or as target sites for various therapies. CC polypeptides are useful as delivery agents for therapeutic agents, in CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used for the generation of chimeric antibodies for therapeutic use. The CS 198 collinaries and belower and drug screening. The CC method of the invention provides an alternative, non-surgical diagnostic CC method capable of detecting early stage GI tract disease such as cancer. The present sequence is a peptide derived from human CS 198 polypeptide consensus sequence
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                                                                                                                                                                                                                                                                       RESULT 25
                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                     CS198; cancer diagnosis; cancer staging; cancer monitoring; cancer prognosticating; cancer prevention; cancer; gastrointestinal tract disorder; gene therapy.
          US2003082619-A1
                                                                                                                                       Synthetic peptide based on
                                                                                                                                                                        20-NOV-2003
                                                                                                                                                                                                       ADA26381;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    consensus sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a method of detecting the presence of a target CS 198 polymuclectide comprising contacting the test sample with at least one CS 198-specific polymuclectide. The method is useful for detecting diseases of the gastrointestinal (GI) tract organs, particularly cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 17; Page 51; 68pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, comprises contacting test sample with at least one CS 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-496163/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Billingel PA,
Granados EN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (FRIE/)
(GORD/)
(GRAN/)
(HAYD/)
(HODG/)
(KLAS/)
(KRAT/)
                                                                                                                                                                                                                                         ADA26381 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roberts-Rapp L,
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                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                     73
                                                                                                                                                                                                                                                                                                                                                                                     31;
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GRANADOS E N.
HAYDEN M.
HODGES S C.
                                                                                                                                                                                                                                                                                                                      \vdash
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KRATOCHVIL J
                                                                                                                                                                                                                                                                                                                     RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                     14.4%;
ilarity 100.0%;
Conservative (
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Hayden M,
                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                       protein; 31
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Hodges SC, Klass MR,
JC, Stroupe SD;
                                                                                                                                       CS198 protein
                                                                                                                                                                                                                                                                                                                                                                                     0;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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RESULT 26
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                                                                                                                                                                                                                                                                           The invention describes a method of detecting the presence of a target CC CS198 polynucleotide in a test sample. The method comprises contacting CC the test sample with at least one CS198 specific polynucleotide or its CC complement, and detecting the presence of the target CS198 polynucleotide for its CC complement of the composition and methods are useful in CC diagnosting, staging, monitoring, prognosticating, preventing or treating, CC or determining the predigosition of an individual to, diseases and CC conditions of the gastrointestinal tract, e.g. cancer and in gene CC therapy. This is the amino acid sequence of a synthetic peptide based on CC consensus sequence shown in seq id 27.
                                                                                                                                                                                                         Query Match
Best Local S
Matches 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Detecting comprises detecting
         Gastrointestinal tract; GI
                               CS198 peptide #2.
                                                                                                   ADN17174 standard; peptide; 31 AA
                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 17; Page 51; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sample.
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30-MAR-1998;
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
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GORDON J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HODGES S C.
                                                                                                                                                                                                                      Similarity
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STROUPE S D.
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ROBERTS-RAPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COHEN M.
                                                                                                                                                                                                                                                        31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PA,
                                                                                                                                                                            RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                               RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the presence of a target CS198 polynucleotide in a test sample contacting the sample with a CS198 specific polynucleotide and the presence of the target CS198 polynucleotide in the test
                                                                                                                                                                                                                                                        ξ
                                                                                                                                                                                                         14.4%; Score 31; llarity 100.0%; Pred. No. Conservative 0; Mismatcl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2002US-00278547
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Hayden MA,
                                                       (first
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                                                       entry)
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Hodges SC, Kla
JC, Stroupe SD;
          tract; CS198; cancer;
                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Friedman
Klass MR,
                                                                                                                                                                                                                      DB 6; I
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                                                                                                                                                                                                                                Length 31;
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Kratochvil
         gene therapy.
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RESULT 27
AAW79680
ID AAW79
XX
AC AAW79
XX
DT 11-JJ
XX
C Syntl
XX
KW Gast
KW Gast
KW Gast
KW Gast
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KW Gast
XX
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Best Local S
Matches 31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified
                                                                                                                                                                                                                                                                                                                                                       The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polynucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (COTA/)
(COHE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Diagnosing diseases such as cancer of the detecting aberrant expression or activity associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Billingel PA,
Granados EN,
                     Gastrointestinal tract; GI tract; cancer; disease; detection; CS198; human; predisposition; treatment; Barret's ossophagus; gastric ulcer; gastritis; leiomyoma; polyps; Crohn's disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                       Sequence 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI;
                                                                     Synthetic CS198
                                                                                           11-JAN-1999
                                                                                                                                      AAW79680 standard; protein; 33 AA.
                                                                                                                                                                                                                                                                                                                      aberrant expression or activity of the CS198 polypeptide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                               Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (KGA9/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HAYD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GORD)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2004-313754/29.
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COLPITTS T L.
PRIEDMAN P N.
GORDON J.
GRANADOS E N.
HAYDEN M A.
HAYDEN M A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KLASS M R.
KRATOCHVIL J E
ROBERTS-RAPP I
RUSSELL J C.
STROUPE S D.
                                                                                                                                                                                                                                          Similarity
31, Conserv
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                                                                                                                                                                                                            RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                               RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ
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                                                                                                                                                                                                                                            Conservative
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L, Russell
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                                                                                                                                                                                                                                                                                                                                                                                                                              ID NO 44; 67pp; English.
                                                                                            (first entry)
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                                                                    derived peptide
                                                                                                                                                                                                                                                    14.4%;
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Hodges SC,
L JC, Stroupe
                                                                                                                                                                                                                                                      Score 31; DB 8; I
Pred. No. 2.9e-23;
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                                                                     #4.
                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gastrointestinal tract, b of the CS198 polypeptide,
                                                                                                                                                                                                                                             <u>.</u>
                                                                                                                                                                                                                                                                 Length 31;
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Kratochvil
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AAE07323
ID AAE
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PAR PAR XXX PR PAR PAR XXX
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Best Local Similarity
Matches 30; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       used in detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition to diseases and conditions of the GI tract, such as GI tract cancer, Barret's oesophagus, gastric ulcer, gastritis, leiomyoma, polyps, Crohn's disease, ulcerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     used in a method to detect the presence of a target human CS198 polynucleotide in a test sample. The CS198 gene is useful as a marker gastrointestinal (GI) tract disorders. The methods and products can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New gastrointestinal polynucleotides, CS198, and their detection - used for developing products for the diagnosis and treatment of gastrointestinal disorders, e.g. cancers, gastric ulcer or gastritis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 33 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAW79677-W79680 are synthetic CS198 derived peptide fragments wlused in a method to detect the presence of a target human CS198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Granados EN,
                                                                                                                                                                                             CS 198; gastrointestinal tract disease; GI tract; cancer; gastric gastritis; Crohn's disease; ulcerative colitis; pancreatitis;
                                                                                                                                                                                                                                                          06-NOV-2001
                                                                                                                                                                                                                                                                                                         AAE07323 standard; peptide;
                                                                                                           02-AUG-2001.
                                                                                                                                                                                 Barret's oesophagus;
                                                                                                                                                                                                                                  Human CS 198 peptide
                                                                                                                                                                                                                                                                                 AAE07323;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ABBO ) ABBOTT LAB.
                                                                                                                                   US2001010904-A1
                                                                                                                                                          Homo sapiens
                                                                                   30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                        160 VDSAPPGQRKKEQWYAGINPSDGINSEVLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and pancreatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 103; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PA,
                                                                                                                                                                                                                                                          (first entry)
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Russell JC,
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                                                                                                                                                                                                                                                                                                                                                                                                                                 14.0%;
                                                                                                                                                                                                                                   #4.
                                                                                                                                                                                  gene therapy; drug screening;
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ges SC, Klass
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(COLP/)
(FRIE/)

COLPITTS T L. FRIEDMAN P N. BILLINGEL P A

(BILL/)

31-MAR-1997;

97US-00828855

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                                                                                                                                                                                                                                                                            RESULT 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CC diseases of the gastroinestinal (GI) tract organs, particularly cancer.

CC The CS 198 polymucleotides, polypeptides and antibodies are useful for CC detecting, diagnosting, staging, monitoring, prognosticating, preventing, treating or determining predisposition to diseases and conditions of the CC GI tract such as cancer, gastric ulcer, gastritis, Crohn's disease, CC ulcerative colitis, pancreatitis and Barret's oseophagus. The CS 198 polypeptides are useful as standards or reagents in diagnostic terminoassays, as components or as target sites for various therapies.

CC Antibodies directed against at least one epitope contained within these colypeptides are useful as delivery agents for therapeutic agents, in CC diagnostic tests and for screening for conditions or diseases associated with CS 198, particularly cancer. Monoclonal antibodies may also be used CC with CS 198, particularly cancer. Monoclonal antibodies may also be used CC organization of chimeric antibodies for therapeutic use. The CS 198 polypeptide is also useful in gene therapy and drug screening. The method of the invention provides an alternative, non-surgical diagnostic method capable of detecting early stage GI tract disease such as cancer. The present sequence is a peptide derived from human CS 198 polypeptide CC consensus securence.
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                             Matches
                US2003082619-A1
                                                Synthetic;
                                                                             cancer prognosticating; cancer prevention; car gastrointestinal tract disorder; gene therapy
                                                                                                              CS198; cancer diagnosis; cancer staging; cancer monitoring;
                                                                                                                                             Synthetic peptide based on CS198 protein #4.
                                                                                                                                                                              20-NOV-2003
                                                                                                                                                                                                              ADA26383;
                                                                                                                                                                                                                                           ADA26383 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a method of detecting the presence of a targe CS 198 polynucleotide comprising contacting the test sample with at leone CS 198 specific polynucleotide. The method is useful for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 17; Page 52; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting the presence of target CS 198 polynucleotide, useful for detecting or diagnosing diseases of the gastrointestinal tract, contacting test sample with at least one CS 198-specific polynucle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Granados EN, Ha
Roberts-Rapp L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Billingel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GRAN/)
(HAYD/)
(HODG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        consensus sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-496163/54
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GORD/)
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KRATOCHVIL J
ROBERTS-RAPP
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STROUPE
                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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HAYDEN M.
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                                                                                                                                                                                                                                                                                                                             VDSAPPGORKKEOWYAGINPSDGINSEVLE 33
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llarity 100.0%;
Conservative (
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Hayden M,
L, Russell
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                                                                                                                                                                                                                                           protein;
                                                                                                                                                                              entry)
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                                                                                                 cancer prevention; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Colpitts TL, Friedman Hodges SC, Klass MR, JC, Stroupe SD;
                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                         Score 30; DB 4; I
; Pred. No. 3.1e-22;
                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Friedman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           trointestinal tract, comprises 198-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                          Length 33;
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Kratochvil JD;
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RESULT 30
ADN17176
ID ADN17
XX ADN17
AC ADN17
XX 17-JU
DT 17-JU
XX XX CS198
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XX Gast1
XX Unide
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                                                                                                                                                                                                                                                                                                                                  The invention describes a method of detecting the presence of a target CS198 polynucleotide in a test sample. The method comprises contacting the test sample with at least one CS198 specific polynucleotide or its complement, and detecting the presence of the target CS198 polynucleotide in the test sample, where the CS198 specific polynucleotide has at least complement to a polynucleotide having any of the 27 fully defined sequences of 34-2894 bp (S1-27) given in the specification, or their fragments or complements. The composition and methods are useful in C diagnosing, staging, monitoring, prognosticating, preventing or treating, or determining the predisposition of an individual to, diseases and c conditions of the gastrointestinal tract, e.g. cancer and in gene therapy. This is the amino acid sequence of a synthetic peptide based on the predicted human CS198 protein sequence derived from the CS198 consensus sequence shown in seq id 27.
                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 30
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Granados EN,
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(GORD/)
(GRAN/)
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(COHE/)
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30-MAR-1998;
  Unidentified
                             Gastrointestinal tract; GI tract; CS198; cancer; gene therapy.
                                                                                 17-JUN-2004
                                                                                                            ADN17176;
                                                                                                                                   ADN17176 standard;
                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 17; Page 52;
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                                                                                                                                                                                                                               160 VDSAPPGORKKEOWYAGINPSDGINSEVLE 189
                                                      peptide
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ROBERTS-RAPP
RUSSELL J C.
STROUPE S D.
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GRANADOS E N.
HAYDEN M A.
HODGES S C.
KLASS M R.
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FRIEDMAN P N.
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Hayden MA,
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98US-00050516.
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                                                                                                                                   peptide; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        67pp; English.
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                                                                                                                                                                                                                                                         14.0%; Score 30; DB
100.0%; Pred. No. 3.
Live 0; Mismatches
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Hodges SC,
L JC, Stroupe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Klass
SD;
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Klass MR, Kratochvil JD;
                                                                                                                                                                                                                                                                       DB 6; Lo. 3.1e-22;
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                                                                                                                                                                                                                                                                                    Length 33;
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Page 17
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Search completed: March Job time: 77.679 secs
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                                                                                                             Query Match
Best Local &
                                                                                                   Matches
                                                                                                                                                                                   The invention relates to reagents and methods for detecting diseases of the gastrointestinal (GI) tract. The method involves detecting the presence of target CS198 polymucleotide in the test sample. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with abstrant expression or activity of the CS198 polympetide, such as cancer of the gastrointestinal tract. These are also useful in gene therapy. The present sequence is a CS198 peptide used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-MAR-1997;
30-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US2004043406-A1
                                                                                                                                                                                                                                                                                                                           Diagnosing diseases such as cancer of the gastrointestinal tract, by detecting aberrant expression or activity of the CS198 polypeptide, and associated treatment methods.
                                                                                                                                                                                                                                                                                                                                                                                                    Billingel PA, Cohen M,
Granados EN, Hayden MA,
Roberts-Rapp L, Russell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-AUG-2003; 2003US-00646873.
                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-313754/29.
                                                                                                                                                 Sequence 33 AA;
                                                                                                                                                                                                                                                                                                   Claim 17; SEQ ID NO 46; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (BILL/)
(COHE/)
(COLP/)
(FRIE/)
(GORD/)
(GRAN/)
(HAYD/)
(HAYD/)
                                                                                                                                                                           invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ROBE/)
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                                                              160 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
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) COHEN M.
) COLPITTS T L.
) FRIEDMAN P N.
) GORDON J.
) GRANADOS E N.
) HAYDEN M A.
) HAYDEN M A.
) KLASS M R.
                                                                                                 30;
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RUSSELL J C.
STROUPE S D.
                                                                                                              Similarity
                                              VDSAPPGQRKKEQWYAGINPSDGINSEVLE 33
                                                                                                14.0%; Score 30; DB 8; Le ilarity 100.0%; Pred. No. 3.1e-22; Conservative 0; Mismatches 0;
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98US-00050516.
          3, 2006, 14:24:32
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                                                                                                                                                                                                                                                                                                                                                                                                     Colpitts TL, Priedman PN, Gordon
Hodges SC, Klass MR, Kratochvil
JC, Stroupe SD;
                                                                                                                          Length 33;
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No.
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Perfect score:
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                                                             A;Map position: 19p13.3
A;Introns: 594/1; 637/3; 650/3
A;Note: F21856_2
                                                                                                                                          A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-679 <LAM>
A;Cross-references: UNIPROT:QBIVT2; UNIPARC:UPI00000745CD; EMBL:AC004030; NID:g2804590;
                                                                                                                                                                                                                                                                     R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Adamson, A.W.; rgescu, A.; Avila, J.; Liu, S.; Bruce, R.; Quan, G.; Montgomery, submitted to the EMBL Data Library, January 1998
A;Description: Sequence analysis of a 3.5 Mb contig in 19p13.3 be
                                                                                                                                                                                                                                                                                                                                                           hypothetical protein F21856_2 - human
("Species: Homo sapiens (man)
("Species: Homo sapiens (man)
("Jante: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-Jul-2004
C;Accession: T00636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen
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                                                                                                                                                                                                                                Accession: T00636
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                        Reference number: Z14195
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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seq length: 2000000000
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Match Length DB
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215
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pir3:*
pir4:*
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1654.188 Million cell updates/sec
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  100.0%;
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Score 215; DB 2; Length 679; Pred. No. 7.5e-215;
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                                                                                                                                                                                                                                                                          Mb contig in 19p13.3 between CDC34 and D19S34
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                   M.; Ow, D.; Nolan, M.;
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Matches 215;
645
                                    181
                                                                           585 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                        525 VWGWEVAGAPALRIQKSQSSDILERERESVIRREQEVASERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                     465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                 121
                                                                                                                                                                                61 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                                                                     1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                       NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                            DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
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Search completed: March 3, 2006, 14:30:52 Job time: 12.5056 secs

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5.1.7 Biocceleration Ltd.

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                      MISSUEABRAIN, and Colon;
TISSUEABRAIN, and Colon;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeborg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Rubin G.M., Hong L.,
                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human)
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         Soares M.B., Bonaldo M.F., Casavant T.L.,
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uniprot_trembl:*
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    2006, 14:19:21; Search time 76.4765 Seconds
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Best Local Similarity
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13-SEP-2005 (Rel. 48, Created)
13-SEP-2005 (Rel. 48, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation updat
Protein C19orf21 homolog.
                                                                                                                                                                                                                                                                                    Pongo pygmaeus (Orangutan).

Pongo pygmaeus (Orangutan).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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EMBL; BC052236; AAH52236.1;
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                                                                                                          The German cDNA consortium; Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
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                                                                                                                                                               TISSUE=Kidney;
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                                                                                                                                                                                                                                             NCBI_TaxID=9600;
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This Swiss-Prot entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN

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a collaboration -MBL outstation -

| CC DR EMBL; CR858675; CAH90887.1; -; mRNA.  KW CG1Led coil. FT COILED 551 575 Potential. SQ SEQUENCE 685 AA; 75892 MW; A3A99F4343396EB1 CRC64; SQ SEQUENCE 685 AA; 75892 MW; A3A99F4343396EB1 CRC64; Sest Local Similarity 100.0%; Pred. No. 5.5e-40; Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Matches 48; Conservative 0; Mismatches 0; Indels 0 | CC use as long as its content is in no way modified and this statement is not CC removed. |
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                                                                                                                   RESULT 1
US-09-050-516-47
                                                                      Sequence 47, Application US/09050516
Patent No. 6627414
GENERAL INFORMATION:
                APPLICANT:
APPLICANT:
APPLICANT:
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seq length: 2000000000
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BILLING-MEDEL, PATRI
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
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Match Length DB
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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/cgm2_6/ptodata/1/1aa/6_COMB.pep:*
/cgm2_6/ptodata/1/1aa/H_COMB.pep:*
/cgm2_6/ptodata/1/1aa/PCTUS_COMB.pep:*
/cgm2_6/ptodata/1/1aa/RE_COMB.pep:*
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US-10-278-547-47
US-09-050-516-42
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Best Local Similarity
Matches 215; Conserv
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FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: DOS
SOFTWARE: FABESEQ for Windows Version
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette
COMPUTER: IBM Compatil
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181
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                                                                                                                         61 VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
ROSERLL, JOHN C.
STROUPE, STEPHEN D.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GRANADOS,
HAYDEN, MA
HODGES, S
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Pred. No. 1.2e-202;
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RESULT 2
US-10-78-547-47
; Sequence 47, Application US/10278547
; Patent No. 6660834

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APPLICANT: BILLING-MEDEL,
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APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FascUSRQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
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                                                                         121
 181
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                                                                                                            121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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                                 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                                                                                  VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                                                                                                             MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acids
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N FOR SEQ ID NO: 47:
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100.0%; Pred. No. 1.2e-202;
ative 0; Mismatches 0;
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US-09-050-516-42
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HOLECULE TYPE:
US-09-050-516-42
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                                                                                                                                                                 Query Match
Best Local Similarity
Matches 215; Conserv
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/09/050,516
ETILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,855
ETILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
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APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PastSEO for Windows Version 2.0
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS 180
                                                                                                   465 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH 524
                                                                61 VWGWEVAGAPALRIQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 120
                                                                                                                    1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                    amino acid
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                                 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
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ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                     Conservative
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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COHEN, MAURICE
                                                                                                                                                                                                                                                linear
3: No. 6627414e
                                                                                                                                                                                                                                                                                    single
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                                                                                                                                                                               100.0%;
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                                                                                                                                                                                                                                                                                                                                                        42:
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                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                        6065.US.P1
                                                                                                                                                                                 Score 215; DB 2; Pred. No. 3.4e-202;
                                                                                                                                                                 Mismatches
                                                                                                                                                                   0
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                                                                                                                                                                                                 Length 679;
                                                                                                                                                                   Indels
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                                                                                                                                                                   Gaps
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                                                                                                                                              TOPOLOGY: linear

MOLECULE TYPE: No. 6660834e

SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-278-547-42
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                                                                              Matches
                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                             TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                              . Match 100.0%; Score 215; DB 2; I Local Similarity 100.0%; Pred. No. 3.4e-202; es 215; Conservative 0; Mismatches .0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                           NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.Pl
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF
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                                   1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NSRSSSQASGITGSYSVSESPPFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-0ct-2002
CLASSIFICATION: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: FastSEQ for Windows Version 2.0
  MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRFLRFRAPDEPQQAQVPH 524
                                                                                                                                                                                                                                   LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 60064-3500
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                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 847/938-2623
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HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATCCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COLPITTS, TRACEY L
FRIEDMAN, PAULA N.
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GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRACEY L.
                                                                                                                     Length 679;
                                                                                Indels
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                                                                                Gaps
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US-09-050-516-43
WOLECULE TYPE:
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Patent No. 66
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                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compati
OPERATING SYSTEM: DOS
SOPTMARE: FastSEQ for
                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/8:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                             SOPTWARE: FastSEQ for Windows Version CURRENT APPLICATION DATA:
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                                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                     REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
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                                                                                                                                                                                                     NAME: Becker, Cheryl REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
                              STRANDEDNESS: single TOPOLOGY: linear
                                                        TYPE: amino acids
                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                        TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100 Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                         IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                             Diskette
              No: 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MARK
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                                                                                                                                                                                                                                                                 08/828,855
                                                                                                                                                                                                                                                                                                                                US/09/050,516
                                                                                                                                                                                                  35,441
                                                                                                            43:
                                                                                                                                                                                       6065.US.P1
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Query Match

16.7%;

Score 36;

DB 2;

Length 36;

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                                                                                                                                                         ; MOLECULE TYPE: No. 6660834e; SEQUENCE DESCRIPTION: SEQ ID NO: 43: US-10-278-547-43
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                                                                           Query Match
Best Local Similarity
Matches 36; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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                                                                                                                                                                                                                                                                                               TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/10/278,547
APPLICATION NUMBER: US/10/278,547
APPLICATION COMBER: US/10/278,547
APPLICATION COMBER: US/10/278,547
APPLICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                           NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 600
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
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  MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                    MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Abbott Park
                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                              LENGTH: 36 amino acids
                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GORDON, JULIAN
GRANADOS, EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Pred. No. 6.1e-28; tive 0; Mismatches 0;
                                                                       16.7%; Score 36; DB 2; L
100.0%; Pred. No. 6.1e-28;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOG
                                                                                                                                                                                                                                                                                                                                                                                                                      6065.US.P1
                                                                           0;
                                                                                                                Length 36;
                                                                             Indels
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                                                                           Gaps
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RESULT 8
US-10-278-547-45
; Sequence 45, Application US/10278547
; Patent No. 6660834
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US-09-050-516-45
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                                                                                                                                                                                          Matches
                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
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APPLICANT:
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APPLICANT:
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APPLICANT:
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCEIODCKET NUMBER: 60:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/335-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                    MOLECULE TYPE: No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: 847/938-2623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Abbott Park
                                                                                                                                        104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                                                                          35;
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60064-3500
                                                                                                                   ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
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HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                        16.3%; Score 35; DB 2; Lot 100.0%; Pred. No. 5.7e-27; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GORDON, JULIAN
GRANADOS, EDWARD N.
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
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                                                                                                                                                                                                                              Length 35;
                                                                                                                                                                                          Indels
                                                                                                                                                                                          0,
                                                                                                                                                                                          Gaps
                                                                                                                                                                                          0
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GRANADOS, EDWARD

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US-10-278-547-45
                                                                                                 US-09-050-516-44
                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acid
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                         Sequence 44, Application US/09050516
                                                                                                                                                                                                                                                       Matches
                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                          tent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HODGES, STEVEN C.
KLASS, MICHAEL R.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: FASTESE for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear MOLECULE TYPE: No. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 45:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                               104 ALFPEVESPTPDENSDONSRSSSOASGITGSYSVS 138
                                                                                                                                                                                                                                                       35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                       Conservative
BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COLPITTS, TRACI
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GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GRANADOS,
                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                            16.3%; Score 35; DB 2; 100.0%; Pred. No. 5.7e-;
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                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                            5.7e-27;
                                                                                                                                                                                                                                                                                            Length 35;
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                                                                                                                                                                                                                                                         Gaps
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RESULT 10
US-10-278-547-44
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Patent No. 6
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Best Local 9
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ZIP: 60064-3500
ZIP: FRADABLE FORM:
MEDIUM TYPE: Diskette
MEDIUM TYPE: Diskette
DISKETTE DISKETTE
DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/82:
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Abbott Park
 TITLE OF
                                                                                                                                                                                                                                                                                                                73 RLQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                            1 RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                             Similarity
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KLASS, MICHAEL R.
KRAFOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSEL, JOHN C.
STROUPE, STEPHEN D.
NVENTION: REAGENTS AN
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HODGES,
                                                                                                                                                                                                                                                                                                                                                             Conservative
INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                BILLING-MEDEL, PATRICIA
                            HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                              FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                  GRANADOS,
                                                                                                                                              COHEN, MAURICE
                                                                                                                           COLPITTS, TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                           No. 6627414e
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                                                                                                                                                                                                                                                                                                                                                                             14.4%; Score 31; DB 2; L
100.0%; Pred. No. 4.2e-23;
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                                                                               EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             44:
                  JON D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6065.US.P1
                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                              Length 31;
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                                                                                                                                                                                                                                                                                                                                           US-09-050-516-46
                                                                                                                                                                                                                                                                                                                                                             RESULT 11
                                                                                                                                                                                                                                                                                                      Sequence 46,
Patent No. 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                   APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
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TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                    APPLICANT:
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FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAMÉ: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COmpatible
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                       73 RIQKSQSSDLLERERESVLRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31;
                                                                                                                                                                                                                                                                                                         6, Application US/09050516
6627414
                                                                                                                                                                                                                                                                                                                                                                                                                 RLOKSOSSDLLERERESVLRREQEVABERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 31 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: USA
ZIP: 60064-3500
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 847/938-2623
                                                 HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOSIVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                               COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                             GRANADOS, EDWAF
                                                                                                                                                                                                                                                                    BILLING-MEDEL, PATRICIA
                                                                                                                                                                MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14.4%; Score 31; DB 2; I
100.0%; Pred. No. 4.2e-23;
tive 0; Mismatches 0;
REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL TRACT
                                                                                                                                                                               EDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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RESULT 12
US-10-278-547-46
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                                                                                                                                                                                                                                                                                                                                                                                              Sequence 40, 6660834
PATENT NO. 6660834
PATENT INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COHEN, MAURICE L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 30; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 14.0%; Score 30; DB 2; L
Best Local Similarity 100.0%; Pred. No. 4.3e-22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: No. 6627414e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                           HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                    NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          160 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 VDSAPPGORKKEOWYAGINPSDGINSEVLE 33
                                                                             CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E: Abbott Laboratories
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                                                                                                                                                                                                                                                                                                                                                                                      COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                   GORDON, JULIAN
                                                                                                                                                                                                                          FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
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0

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TELEX: CUNKNOWN ACCOUNTS TELEX: CUNKNOWN ACCOUNTS FOR SEQ ID NO: 46: SEQUENCE CHARACTERISTICS: LENGTH: 33 amino acids TYPE: amino acids STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: NO. 6660834e SEQUENCE DESCRIPTION: SEQ ID NO: 46: US-10-278-547-46
                                                                                                                                                                                                                                                    망
Search completed: March 3, 2006, 14:32:05
Job time : 16,8725 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 14.0%; Score 30; DB 2; Length 33; Best Local Similarity 100.0%; Pred. No. 4.3e-22; Matches 30; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FBSTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: CUNKNOWN>
PRIOR APPLICATION NUMBER: US/99/050,516
FILING DATE: CUNKNOWN>
APPLICATION NUMBER: US/99/050,516
FILING DATE: APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 35,451
REFERENCE/DOCKET NUMBER: 35,461

                                                                                                                                                                                                                                                                                                                                      160 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
                                                                                                                                                                                                                                                           4 VDSAPPGORKKEOWYAGINPSDGINSEVLE 33
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Result
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Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Searched:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Title:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and is derived by analysis of the total
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pred. No. 18 the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,
                                                                                                                                                                                                                                                                                                                                                                                       Score
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length: 2000000000
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Match Length DB
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215
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16.3
16.3
14.4
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3, 2006, 14:45:41 ; Search time 58.9206 Seconds
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US-10-106-698-47
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US-10-278-547-47
                                                                                                                                                                                                                                                                                                                                                                                                                                         SUMMARIES
ALIGNMENTS
                                                                                                                                                                                                                                                          10-106-698-4761
                                                                                                                                                                                                                                           0-029-386-33676
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1524.651 Million cell updates/sec
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                                                                                                         42, Appl
42, Appl
42, Appl
4761, Ap
33676, Ap
33676, Appl
43, Appl
43, Appl
43, Appl
45, Appl
45, Appl
45, Appl
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RESULT 1 US-09-050-516-47

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 47,
                                                                                                                                                                                                  Matches 215;
                                                                                                                                                                                                              Query Match 100.0%;
Best Local Similarity 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFO
                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: ROBERTS-R
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSITE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 08/8 FILING DATE: 31-MAR-1997 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                        MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET:
CITY: A
                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                                                                                                                                                                                     STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                   TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                             ENGTH:
                            121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                  121 NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION
181 DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
                                                                                                          61 VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                    61
                                                                                                                                                                    1 MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Abbott Park Road
                                                                                    VWGWEVAGAPALRIQKSQSSDILERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ
                                                                                                                                           MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                       847/938-2623
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RUSSELL, JOHN C.
STROPEN D.
VENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GORDON, JULIAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COLPITTS, TRAC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HAYDEN, MARK
                                                                                                                                                                                                                                                                        No. US20010010904A1e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EDWARD N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08/828,855
                                                                                                                                                                                                                                                                                                                                                                                                                                               35,441
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                                                                                                                                                                                                                                                                                                                                                                                                                                  6065.US.P1
                                                                                                                                                                                                               Score 215; DB 3; 1 Pred. No. 6.1e-198;
                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                              Length 215;
                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                   Gaps
                                180
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                                                                                         120
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MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 47:
US-10-278-547-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 2
US-10-278-547-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 47, Application US/10278547 Publication No. US20030082619A1 GENERAL INFORMATION:
                                                                                                                               Matches 215;
                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
PILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEO for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL JON D.
METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE
           13
VWGWEVAGAPALRLQKSQSSDLLERERESVLRREQEVAEERRNALFPEVFSPTPDENSDQ 120
                                                                       MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                   MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVRWEYFRLRPLRFRAPDEPQQAQVPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Abbott Park
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 847/938-2623
                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HAYDEN, MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100 Abbott Park Road
                                                                                                                                             100.0%; Score 215; DB 4; 1 100.0%; Pred. No. 6.1e-198;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                               0
                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                           6065.US.P1
                                                                                                                               0
                                                                                                                                                                  Length 215;
                                                                                                                             Indels
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                                                                                                                             Gaps
                                                     60
                                                                                           60
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TOPOLOGY: linear
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MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 47:
US-10-646-873-47
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US-10-646-873-47
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                                    Query Match
Best Local Similarity
Matches 215; Conserv
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Publication No. US20040043406A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                   TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/050,516

FILING DATE: 30-MAR-1998

APPLICATION NUMBER: 08/828,855

FILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARE: FRAEUSRO for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BILLING-MEDEL, PATRICIA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Abbott Park
STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                               TYPE: amino acids
                                                                                                                                                                                                                                                                                                           TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
                                    100.0%; Silarity 100.0%; F
Conservative 0;
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                                    Score 215; DB 4; 1
Pred. No. 6.1e-198;
); Mismatches 0;
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                                                                        Length 215;
                                        Indels
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US-09-050-516-42
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                                                                         SEQUENCE CHARACTERISTICS:
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
TOPOLOGY:
                                                                                                                                      REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                               APPLICATION NUMBER: 08/8 FILING DATE: 31-MAR-1997 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                            CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'ITLE OF INVENTION:
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OPERATING SYSTEM:
                           STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Abbott Park
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                                                                                                                      TELEFAX: 847/938-2623
                                                         ENGTH:
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                                           H: 679 amino acide amino acid
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                                                                                                                                                                                               Becker, Cheryl L.
 TYPE:
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROTTEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BILLING-MEDEL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GRANADOS,
                                                                                                                                                                                                                                                                                                                                                       IBM Compatible
SYSTEM: DOS
               linear
 No. US20010010904A1e
                              single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               49
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                                                                                                                                                                                                                                               08/828,855
                                                                                           42:
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Query Match
Best Local Similarity
Matches 215; Conserva
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Publication No. US20030082619A1
GENERAL INFORMATION:
                TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
                                                                                    APPLICATION NUMBER: US/09/050,516
PILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Chery1 L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION IMPORMATION:
TELECOMMUNICATION IMPORMATION:
                                                                                                                                                                                                                                                                                             COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
OPERATING SYSTEM: DOS
SOPTWARE: FactSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-OCt-2002
CLASSIFICATION: Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSES: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
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SEQUENCE
                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DGINSEVLEAIRVTRHKNAMAERWESRIYASEEDD 215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KRATOCHVIL, JON D.

OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                            TELEPHONE: 847/935-1729
                                                         TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
CHARACTERISTICS
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HODGES, STEVEN C.
KLASS, MICHAEL R.
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FRIEDMAN, PAULA N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRACEY L.
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STRANDEDNESS: single
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TOPOLOGY: linear
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MOLECULE TYPE: NO. US20030082619A1e
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SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-278-547-42
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                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
PILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARBE FRAELSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVEDPVDSAPPGQRKKEQWYAGINPS
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             NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 60
                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 60064-3500
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COHEN, MAURICE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDWARD N.
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Pred. No. 1.7e-197;
Mismatches 0;
                 6065.US.P1
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Sequence 4761, Application US/10106698
Publication No. US20030109690A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer A
FILE REFERENCE: PA005P1
CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR TILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR PILING DATE: 1999-09-29
PRIOR PILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 8564
SOFTWARE: Patentin Ver. 3.0
LENGTH: 172
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MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-10-646-873-42
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US-10-106-698-4761
                                                                                    Matches
                                                                                                                         Query Match
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Best Local Similarity
                                                                                                                                                                               LOCATION: (55)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids NAME/KBY: MLSC FEATURE
LOCATION: (116)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                                   PEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo gapiens
                                                                                                        Local
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99 EERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVED 158
56 EERRNALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVSESPFFSPIHLHSNVAWTVED 115
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                                                                                                      Similarity
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                                                                                Score 60; DB 4; Le
; Pred. No. 3.6e-49;
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Pred. No. 1.7e-197;
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                                                                                                                         Length 172
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/029,386
CURRENT FILING DATE: 2001-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 34288
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OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PPLICANT: Hanzel, David K.
ITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
ITLE OF INVENTION: EXPRESSION ANALYSIS TWO
                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COmpatible
            OPERATING SYSTEM: DOS
SOPTWARE: FASUSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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                                                                                                                                    COUNTRY: USA
ZIP: 60064-3500
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APPLICATION NUMBER: US/09/050,516
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                                                                                                                                                                                          Abbott Park
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                                                                                                                                                                                                               100 Abbott Park Road
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                                                                                                                                                                                                                                                                                                                                                                                                       HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                           ROBERTS-RAPP, LISA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FRANADOS,
                                                                                                                                                                                                                                   Abbott Laboratories
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MARK
                                                                                                                                                                                                                                                                                                                                                         STEPHEN D.
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                                                                                                                                                                                                                                                                                            REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF T TRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDWARD N.
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                                                                                                                                                                                                                                                                                                                OF THE GASTROINTESTINAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: No. US20010010904A1e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
                                          COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.(
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547.
FILING DATE: 23-Oct-2002
CLASSIFICATION DATA:
APPLICATION NUMBER: US/09/050,516
APPLICATION NUMBER: US/09/050,516
APPLICATION NUMBER: 08/928,855
APPLICATION NUMBER: 08/928,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Becker, Cheryl L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 60064-3500
              NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                           CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COHEN, MAURICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KRATOCHVIL, JON D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HODGES, STEVEN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16.7%; 5u-
100.0%; Pr/
0;
DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MARK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       43:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6065.US.P1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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TELEPHONE: 847/935-1729 TELEFAX: 847/938-2623

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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 43:
US-10-278-547-43
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Publication No. US2004
GENERAL INFORMATION:
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                     APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
                                                                                 REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                 CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             36;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MSPRHLSESSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Abbott Park
                                                                                                                                              NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
                                                             TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Application US/10646873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GORDON, JULIAN GRANADOS, EDWAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HAYDEN, MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EDWARD N.
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TOPOLOGY: 11near
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MOLECULE TYPE: No. US20040043406Ale
; SEQUENCE DESCRIPTION: SEQ ID NO: 43:
US-10-646-873-43
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Best Local Similarity
Matches 36; Conserv
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FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/828,85
FILING DATE: 31-MATION:
PRIOR APPLICATION INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/235-1729
                                                                                               INFORMATION FOR SEQ ID NO:
                                             SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
TOPOLOGY: 1:
MOLECULE TYPE:
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ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 100 Abbott
CITY: Abbott Park
                              STRANDEDNESS: single
                                                                                                                               TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                       60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MSPRHLSBSSGKPLSTKQEASKPPRGCPQANRGVVR 36
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                                                                                                                                                                                                                                                                                                                                                                                     IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STROUPE, STEPHEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
linear
E: No. US20010010904Ale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HAYDEN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRACT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     49
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                                                                                                                                                                                                                                                            08/828,855
                                                                                                                                                                                                                                                                                                                            us/09/050,516
                                                                                                 45:
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; Pred. No. 1e-26;
                                                                                                                                                                                 6065.US.P1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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Query Match 16.3%; Score 35; DB Best Local Similarity 100.0%; Pred. No. 9e-Matches 35; Conservative 0; Mismatches

DB 3; Length 35; 9e-26; 0

Indels

0;

Gaps

0

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INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: NO. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 45:
US-10-278-547-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
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                                                          Query Match
Best Local Similarity
                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
KRATOCHVIL JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/09/050,516
PILING DATE: <UNKNOWN:
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNSY/AGENT INFORMATION:
NAME: Becker, Cheryl L
REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BILLING-MEDEL, PATRICIA
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    104 ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ALFPEVESPTPDENSDQNSRSSSQASGITGSYSVS 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                  TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
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Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COHEN, MAURICE COLPITTS, TRACEY L. FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GORDON, JULIAN
GRANADOS, EDWAH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HAYDEN, MARK
                                                                16.3%; Score 35; DB 4; Length 35; 100.0%; Pred. No. 9e-26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EDWARD N.
                                             0.
                                             Mismatches
                                             0,
                                             Indels
                                             0,
                                             Gaps
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RESULT 15 US-09-050-516-44

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US-10-646-873-45
  문
                                                                                                                                                           MOLECULE TYPE: NO. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 45: US-10-646-873-45
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                                                                                                   Query Match
Best Local Similarity
                                                                                Matches
                                                                                                                                                                                                                                                                                                         TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/050,516

APPLICATION NUMBER: 08/828,855

FILING DATE: 30-MAR-1998

APPLICATION NUMBER: 08/828,855

FILING DATE: 31-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REGISTRATION NUMBER: 6665.US.P1

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTMARE: FRAELSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE
104 ALFPEVFSPTPDENSDQNSRSSQASGITGSYSVS 138
                                                                                  35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ALFPEVFSPTPDENSDQNSRSSSQASGITGSYSVS 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003 CLASSIFICATION: Unknown>
                                                                                                                                                                                                                        LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GRANADOS, EDWARD N.
                                                                              16.3%; Score 35; DB 4; Le
100.0%; Pred. No. 9e-26;
^. Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                     6065.US.P1
                                                                                                                           Length 35;
                                                                                     Indels
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; Sequence 44, Application US/10278547; Publication No. US20030082619A1; GENERAL INFORMATION:
                                                                                                              RESULT 16
US-10-278-547-44
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                                                                                                                                                                                                                                                                                                                                              ; TOPOLOGY: linear; MOLECULE TYPE: No. US20010010904A1e US-09-050-516-44
                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatibl
OPERATING SYSTEM: DOS
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: HODGES, SI
APPLICANT: KLASS, MI
APPLICANT: KRATOCHVI:
APPLICANT: ROBERTS-R.
APPLICANT: RUSSELL,
APPLICANT: STROUPE,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.Pl
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847,935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/8
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 31 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Abbott Laboratories
APPLICANT: BILLING-MEDEL, PATRICIA COHEN, MAURICE COLPITTS, TRACEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   44,
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                                                                                                                                                                                                                              73 RIQKSQSSDLLERERESVLRREQEVABERRN 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4, Application US/09050516
US20010010904A1
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Abbott Park
                                                                                                                                                                                            RLQKSQSSDLLERERESVLRREQEVAEERRN 31
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COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
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KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
VENTION: REAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
VENTION: TRACT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HAYDEN, MARK
                                                                                                                                                                                                                                                                  14.4%; Score 31; DB 3; L
100.0%; Pred. No. 5.6e-22;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PATRICIA
                                                                                                                                                                                                                                                                                                          Length 31;
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                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                        0
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MOLECULE TYPE: No. US20030082619A1e
SEQUENCE DESCRIPTION: SEQ ID NO: 44:
US-10-278-547-44
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                                                                                                                                                                                                                                RESULT 17
US-10-646-873-44
                                                                                                                                                                        Sequence 44, Application US/10646873
Publication No. US20040043406A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/09/050,516
PILING DATE: «Unknown:
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY,AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: **
CORRESPONDENCE ADDRESS:
ADDRESSE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/10/278,547
PILING DATE: 23-Oct-2002
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette
                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                  73 RIOKSOSSDILERERESVIRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                        31;
                                                                                                                                                                                                                                                                                                              1 RLOKSOSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                          COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN GRANADOS, EDWARD N.
                                                                                                                                    BILLING-MEDEL, PATRICIA COHEN, MAURICE
  HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GORDON, JULIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRIEDMAN, PAULA N.
                                                                                                                                                                                                                                                                                                                                                                                                            14.4%; Score 31; DB 4; 1 100.0%; Pred. No. 5.6e-22
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                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
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Gaps

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RESULT 18
US-09-050-516-46
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 44: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                               APPLICANT:
                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: FABLISEQ For Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/646,873
FILING DATE: 22-Aug-2003
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear MOLECULE TYPE: No. US20040043406Ale SEQUENCE DESCRIPTION: SEQ ID NO: 44:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: REAGENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              73 RLOKSOSSDILERERESVIRREQEVAEERRN 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/09/050,516
FILING DATE: 30-MAR-1998
APPLICATION NUMBER: 09/828,855
FILING DATE: 31-MAR-1997
NUMBY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                         RLQKSQSSDLLERERESVLRREQEVAEERRN 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM: DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                        Application US/09050516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEX: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                         COLPITTS, TRACEY L. FRIEDMAN, PAULA N. GORDON, JULIAN
KRATOCHVIL, JON D.

ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.

METHODS USEFUL
/ENTION: REAGENTS AND METHODS USEFUL
/ENTION: FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                         BILLING-MEDEL, PATRICIA COHEN, MAURICE
                                                                                                                                                                             GRANADOS,
                                                                                                     MARK
S, STEVEN C.
MICHAEL R.
TON D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14.4%; Score 31; DB 4; Lo
100.0%; Pred. No. 5.6e-22;
ative 0; Mismatches 0;
                                                                                                                                                                             EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 31;
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US-09-050-516-46
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APPLICANT: BILL
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/828
APPLING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acids
STRANDEDNESS: single
TOPOLOCY: lim-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTMARE: FRANCISCO for Windows Version 2.0
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Becker, Cheryl L. REGISTRATION NUMBER: 35,441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
ZIP: 60064-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/09/050,516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX:
                                                                                                 NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            160 VDSAPPGORKKEOWYAGINPSDGINSEVLE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Abbott Park
                                                                 ADDRESSEE: Abbott Laboratories STREET: 100 Abbott Park Road
                                 STATE: IL
                                               CITY: Abbott Park
ZIP: 60064-3500
               COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                          Application US/10278547
To. US20030082619A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                           KRATOCHVIL, JON D.
INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE GASTROINTESTINAL
                                                                                                                                                                                                                                                                 : BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
                                                                                                                                                                                              HAYDEN, MARK
HODGES, STEVEN C.
KLASS, MICHAEL R.
                                                                                                                                                                                                                                                       GRANADOS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    No. US20010010904A1e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14.0%; Score 30; 100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08/828,855
                                                                                                                                    TRACT
                                                                                                                                                                                                                                                       BDWARD N.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 3;
5.4e-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatite OPERATING SYSTEM: DOS

IBM Compatible

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US-10-646-873-46

US-10-646-873-46

Sequence 46, Application US/10646873

Publication No. US20040043406A1

GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear MOLECULE TYPE: No. US20030082619Ale SEQUENCE DESCRIPTION: SEQ ID NO: 46: US-10-278-547-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/09/050,516
FILING DATE: «Unknown»
APPLICATION NUMBER: 08/828,855
FILING DATE: 31-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REGERENUE/DOCKET NUMBER: 6065.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/10/278,547
FILING DATE: 23-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                 HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISBASES OF THE GASTROINTESTINAL
TRACT
                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: BILLING-MEDEL, PATRICIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     160 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 VDSAPPGORKKEOWYAGINPSDGINSEVLE 33
                                                                                                                                                                       CITY: Abbott Park . STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14.0%; Score 30; DB 4; Lilarity 100.0%; Pred. No. 5.4e-21; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                             COLPIN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                       HAYDEN, MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 33;
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TOPOLOGY: linear;

MOLECULE TYPE: No. US20040043406Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-10-646-873-46
Search completed: March 3, 2006, 14:50:28 Job time: 58.9206 secs
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                                                                                                                                    Ś
                                                                                                                                                                                                                                                                                                                                              NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6065.US.P1
RELECOMMUNICATION IMFORMATION:
TELEPHONB: 847/935-1729
TELEPAX: 847/938-2623
TELEFAX: 670known
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENOTH: 33 amino acids
TYPE: amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                  Query Match 14.0%; Score 30; DB 4; L
Best Local Similarity 100.0%; Pred. No. 5.4e-21;
Matches 30; Conservative 0; Mismatches 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/050,516
PILING DATE: 30-MAR-1998
APPLICATION NUMBER: 08/828,855
PILING DATE: 31-MAR-1997
ATTORNEY/AGENT IMPORMATION:
                                                                                                                      160 VDSAPPGQRKKEQWYAGINPSDGINSEVLE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/10/646,873 FILING DATE: 22-Aug-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: <Unknown>
                                                                                            ω
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                                                                                                                                                                                                                          Length 33;
                                                                                                                                                                                Indels
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                                                                                                                                                                                Gaps
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OM protein - protein search, using sw model
                                                                          Result
No.
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Maximum DB seg length: 200000000
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Perfect score:
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No matches found
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                                                                       Query
Score Match Length DB ID
                                                                                                                                                                                                                                                                                                      Published Applications AA_New:*
1: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/USO6_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/USO1_NEW_PUB.pep:*
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Gapop 60.0 , Gapext 60.0
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215
1 MSPRHLSESSGKPLSTKQEA.....HKNAMAERWESRIYASEEDD 215
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                            SUMMARIES
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Search completed: March 3, 2006, 14:50:59 Job time: 6.0123 secs

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